

3459

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

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<222> (597)

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<222> (614)

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<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 3831

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ctcaaagact tccaccctgg agaccacact gcacacagtg acttcctggg gatgtcatag 120
ccaaagccag gacctgacgca ttctcgtatc caacccaagg accttttgga atgactgggg 180
agggctgcag tcacattgat gtaaggactg taaacatcag caagacttta taattccttc 240
tgcctaactt gtaaaaaggg ggctgcattc ttggtggtag catgtactct gttgagtaaa 300
acacatattc aaattccgta taccaaaatc catttccttt gtaacaagaa tttaccagta 360
actgtgatct aggttgccaa aagttgtctg aatctcctta ttcttctctg atcttcattt 420
atgcagccaa tgtctagctg gacctgacct catcttgagc ntcatacagg cactgtttga 480
gagattgggtt attattagat gttgtaatgc tgcttcaaga ttcttcatgg ttacatggga 540
tgccctgct catctggnc tgaagtant aacattcacc ccaatgaggg atatagnat 600
taattccttt ttcnagttac ttgtaccnaa acaccgg 637

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<210> 3832

<211> 488

<212> DNA

<213> Homo sapiens

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<222> (99)

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<221> misc feature

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3460

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<220>
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3461

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<400> 3832

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aatggttatt tattggaggt ggtaattagg gaagatgtnc ttttaaacag tagaattgtg 120
ttacaaaggg gtgaaagaga gggaatagtt gctccttggt gaagggcatg tgaaggtagg 180
tttcagggtt ggtttttacaa acctgttaac tacctcctgt ccagcttgac aganactaat 240
ttttcatctt ttgtgtgtca atnngttcnc agaaaagaga cttttccctc tcttgatagg 300
atctgtctta gggacanagg gaccatcgtc ttttaagtga ttaattattg atggttcana 360
atggttttca tcatnttggg atcagctata tggcaaatag gtatcatcaa tgagntaacc 420
atctaaaaat anaanaagtg gaagccctaa aatgctagga ataataatan aaaggccaaa 480
nataaccc 488
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<210> 3833

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

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<222> (2)

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<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

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<222> (98)

<223> n equals a,t,g, or c

<220>

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<222> (142)

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<220>

<221> misc feature

3462

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<220>
<221> misc feature
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<223> n equals a,t,g, or c

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<222> (314)
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<220>
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<222> (332)
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<220>
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<222> (356)
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3463

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<220>

<221> misc feature

<222> (403)

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<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 3833

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cggaattccc gggtcgaccc acgcgtccga ttacattntc tcccctgata atctcttcta 120
aattaccttc tgtagttggg tntcttccct tccttaatgt tagccattct tcagggtgaag 180
gttaatcctc aatgnactct tcatgtttta ggggaggggc taaaaccttg ggggtaggac 240
ttaccaacgg agtttcattg catgatgac ttattgagct tattggtagc ccttatntca 300
gnatntaaag ntnntcttgg gctgggcaga tnttcaagag aagacttttc atttcntttg 360
nggagggaaa aggcctttta ccagcactct tcaagctcag nangggaaa acttcaagca 420
ctcaggaagc angcat 436
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<210> 3834

<211> 115

<212> DNA

<213> Homo sapiens

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<222> (8)

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<222> (30)

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<220>

<221> misc feature

<222> (43)

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<222> (79)

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<221> misc feature

<222> (81)

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3464

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<400> 3834

gcctagtnat agggcagtga ggaatcaggn ctactatgga aanagtcaca taacggtctc 60
ttcaaactct tacatgccnt nacctaagat gatcaccact cactgcgant gtctc 115

<210> 3835

<211> 69

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 3835

tttaaggggt gggaacccccg gcccccgga caggngacac gcggggccgc ggaaatattc 60
tccggggggg 69

<210> 3836

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

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<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

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<222> (59)

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<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3465

<222> (62)

<223> n equals a,t,g, or c .

<400> 3836

gcctttaaaa acagaacctt ttatacaggt ggattttcat tcctctgggg acagnggnng 60
nnaaga 66

<210> 3837

<211> 52

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (38)

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<220>

<221> misc feature

<222> (47)

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<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<400> 3837

gagcncaatg aagatcaaga tcattgctgg gtgcgtgntg cattggngnc nt 52

<210> 3838

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (305)

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<220>

3466

<221> misc feature
<222> (307)
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<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<400> 3838
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ttttttaaga gtgtgtgatg tgtgttttgt agatttcttg acagtgtgtg aatacagacg 120
gcaatgcaat agcctattta aagacactac gtgatctgat tgagatgtac atagtttttt 180
tttttaccat aactgaatta ttttatctct tatgttaaca tgagaaatgt atgccaaatg 240
attagttgat gtatgttttt taatttaata tttaaataaa atatttggaa ggaaaaaaaa 300
aaaananann aaan 314

<210> 3839
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

3467

<220>
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<222> (60)
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<220>
<221> misc feature
<222> (102)
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<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 3839
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ttacccggggg tttccccggg gaaaattttt cccccggggg gnttccggaa cncccaacgg 120
gccgnttccc cggggttggt tggaaacntt aaagggttta tttttggctt tggccattan 180
a 181

<210> 3840
<211> 458
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
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3468

<220>

<221> misc feature

<222> (420)

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<220>

<221> misc feature

<222> (423)

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<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<400> 3840

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tctgatgtgc ggcacttcat gtccgagctt atccatttgg ttttgggtctt tggaaaagac 120
aacgttagtc acttactagt ggcagttgca tggagaagag ggctcactaa tgggggacag 180
ggtgatcatt tggagtttgc aagctgtgaa gacagatgtt ggctcttcac aattttggaa 240
gggttccacta gttaagtgtg ggaccttatg ggggatggaa ataaggcaga ggcatagttc 300
tgggccactga gttccttaag gtctgctgaa ggctgccgat gcgtctctca ctcctctgta 360
tgctctggag canaccaggg gctggaggaa tganggaaga tcctttcatt aaccaccatn 420
tgntgacatt tttctttgtg aaaacatttn tattatat 458
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<210> 3841

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

3469

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 3841

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gcagtgggtgc agttctcggc ctctcggcct ggcttctctga ctttctggga ccagtgcaca 60
gagagactca gctgcttcct ctgcccgggtg gagcgggtgc ttctcacctt ctgcaaccag 120
tatgggtgccc gcctctccct gcgccagcca ggcttggttg aggctggtga gtgggctgct 180
tcctccttcc acccttgctc agattccag tgacaggaag ctcggggaag ccaggtcagc 240
ccacacagat aaacgaactg ggcaccgagg agaccagcaa agacttgggc cttagagcag 300
aaggacccag atgggtgggg tttgaacagg gggcccctgg acctgagcct gggataggag 360
catctctccc ctctaaaagc tgtgttcacc caaactctga ggcccatgct actgcctcct 420
gcagtgtgtg tgaagttcct ggaggatgcc ctggggcana actgnccaga aggccccaan 480
caagggcctg ganagcan 498
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<210> 3842

<211> 98

<212> DNA

<213> Homo sapiens

<220>

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<222> (46)

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<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (92)

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<220>

<221> misc feature

<222> (96)

<223> n equals a,t,g, or c

<400> 3842

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gaacactgca atgctataca tctatgctgt gttgcttggt aaatcnaggc actgcagtat 60
tangcatgca catgattntt tctgagaatg angaantc 98
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<210> 3843

3470

<211> 63
<212> DNA
<213> Homo sapiens

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<222> (41)
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<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<400> 3843
gcggacgcgt ggggtggcact gaggagctat ggggccacaa ncagtantna ctggctnntt 60
tcc 63

<210> 3844
<211> 65
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)

3471

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<400> 3844

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tatttt 65

<210> 3845

<211> 76

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

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<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 3845

gaaaaaaaaac antnnacaat gaaaatattg agaagatatt gagaaagaaa tatatttggg 60
gcggacatcn atgnga 76

<210> 3846

3472

<211> 187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (11)

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<220>

<221> misc feature

<222> (37)

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<220>

<221> misc feature

<222> (45)

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<220>

<221> misc feature

<222> (71)

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<220>

<221> misc feature

<222> (122)

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<220>

<221> misc feature

<222> (136)

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<220>

<221> misc feature

<222> (156)

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<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3473

<222> (176)

<223> n equals a,t,g, or c

<400> 3846

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ttaattacca ngaacttatt tagggcattc cctttcnacc atggnaacc ccattgccct 60
tacggacttt ncaaagggat tagaatttct tttccttttc ttaattcagg ggggacaatt 120
cnggcttttc caacanctcc ttgcttgccc gcttgncagc agccaggcan gtttcngatg 180
aatcaag                                     187
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<210> 3847

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 3847

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gctgggaaca agccngagct gnangangaa gagaagntgt acaagaacgc ccgggaaagg 60
gagaagta                                     68
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<210> 3848

<211> 235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

3474

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<400> 3848

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gcgcccgcgc nnagggccgc acgaggcccg gcgtgcgcgc cgcctctctc cgaagcgccg 60
ggccccacgc cgccctctct ttccctttcc gctctctccg cctccggaag cgcgggcgcg 120
cggcgcgggg agcccggttca gggccgcggg agtgcgccag ngccgngcgt ggggctgagg 180
tggccngngn tctcagatat atttttgcc a tcatgganca gtttgagat atatt      235
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<210> 3849

<211> 71

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

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<220>

<221> misc feature

<222> (61)

3475

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 3849

gctttgctgc tangtaggca tggattatta tgctgataca tagagctctt ttgatgataa 60
nnngattnta a 71

<210> 3850

<211> 76

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

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<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

3476

<400> 3850

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tgactgncca nacttc 76

<210> 3851

<211> 63

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

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<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 3851

gcaatgtccg ccagaaggnc aggcnagccn agcctngccc tcaggcggag antggtctgt 60
gac 63

<210> 3852

<211> 349

<212> DNA

<213> Homo sapiens

<220>

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<400> 3852

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tgctgtagt gacttgtgca tatagcacac atgatatagt atattgtatt acagtaaact 180
ttagacantg ctacttaatc attttacttc atgaagataa actancattc taaatatgaa 240
taatattaat ggtctacaaa aaattttgag cacattttan aatcatattt ataataaact 300
ggncaaattg ggcttatnta atgtataatt tagaaccacac tgtgtagnn 349
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3478

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ggctacana 129

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3479

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aaggattgct aaatgntttt ggntcaatta cataaaaatt aatattctgg gtntgatctg 180
ggagagaata aatatganan 200

<210> 3855
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<212> DNA
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3480

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<400> 3855

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tgcacgtttt ctcttttgaa agataagcac tggagaacca tcttcgttac cttcancaga 180
aatggaaaca attcaagaca ttaagaatgc cgnaantgga cagcagctat gcanggttca 240
gnatatgaag ttttcaagat ggtgtgcctc actaanccng aaatcangaa aagatcgaag 300
ctagcctntt tnatctcagc ntgctcctta aatcangnca acnccctcca aaattaattg 360
tgaatctgaa acctttgcca ttngcttttt caaactttta attgganata accttaactt 420
attntgntga aaccacantt gccaccataa aattat 456

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<212> DNA

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3482

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tcctaaattc aattattaaa gtttngggg g 91

<210> 3857
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3483

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 aagaatgtat aggctaagaa atgcctctca cgtatacata gccaaaagct tttcttggct 180
 tcagattaat gatttctgat gtaacatttt ttaatgtaaa cacaaaaaat gacttgatat 240
 tttcttggtta ctccatttat ttcttaatga ttgcatttca tgtttctaata tttctaagta 300
 aattataatt acaaatttagc cttgtattaa aatatagggc tcaaaatatt ttctgngggt 360
 ctctttgggtc ttcatgccaa gtttgncaat ttatattctc tcagtgatta tttggntatt 420
 tttagnnggta gntgggtattt atcaagtggg aaactatgaa tacctncatt tgctatttga 480
 gaaaatgaca ctcatttaat ctaantaaaa 510

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 cttcccaaag gccacagcct ttattccagg ccaggggatg taggaggggg aaggaggaaa 180
 caggaagccc agagagggca aagggcctac ctcggggcgc gaaccatgcc ccagactatt 240
 atctcagggc tttctgggca ctgacttcag cgtggccacc tgcccatgcc ctgaggccag 300
 ttggcgaggg gtggtcctga gggtttttat accctttgtt tgctaattgt taattttgca 360
 tcataatttc tacattgtcc ctgagtgtca gaactataat ttattccatt tctctctgtg 420
 tctgtgccaa gaaacgcang ctctgggcct gcccttgccc aggaagcctt gcagctgtgt 480
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 aaaaaaaaang gn 552

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3485

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tcccccccca cctgccccct gcgtaggcac ccagacttgg agagaccgtg ctgctgtaa 180
tacttccatc ctcttccctc ccaaagagca gatcccaagg catttactcc ttggtctgtc 240
tcgctttatc tgtcgccccct cccagcgctg agagcctccc ctggctgtca gcagcactgt 300
gtccaggctc ttgtctgaac accgcagccc ctcttctgct ccttccagag ctcagcatgt 360
cacggcaagg actgccgcat tggatgatgga gggccanctg angggaagtt gctggggaag 420
tttcttttct tncatttcta gcatatggac acctggcctc tgcttgaaca cttangtgac 480
aggaacttcg caccttctga ngccctggat gattctaatt ggtagaaatt ctaattggta 540
naaatcttcc ttataatgaa tgaatctgct ttctataatn ntacctattg ggccttgnnt 600
gg                                                    602
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<210> 3861

<211> 458

<212> DNA

<213> Homo sapiens

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3488

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 cataaatttt tagttgatgg cattctttta tttagagggt gctttgaaag tgggttccat 180
 gtcttagtca tctttgggtt tcttggggcc ttacacagtg ctggcataaa gcagccctgg 240
 aaataatggt tgttcaaaat gtaagtggag tatagatttt cccttttggt agatagctaa 300
 gaaatccttc angggaacct ggaatgcctc nttggtatgc angtcttgca gagcttttga 360
 ttgtnatttg aaataaactg ccctcgtggg gcnetgttct ttttgcaaat tggcttgaaa 420

3489

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458

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<212> DNA

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gcctcaaggg tcccccttctg caccgctggc ttccactcca ataaagtgga ccanggtctg 180
caagttcaac ggtcatagct ttccccccat gtcccaactt gcctcatcac tcccggccct 240
aatctctcca nnnnnnnncc ccnngcctct tggggtcana cccaactat tcaagggatc 300
tcctgctctt aatcgataat tgggggtccc tgctctcccc aagaanatct cttcaagaaa 360
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<210> 3863
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<212> DNA
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3492

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gcagggtatac tctgatcaca ttcaggataa gtgtacagaa gaaaatacgg tgtttactct 180
ttaggggaact ggaaacactc cctgcattga tgttacattt taagaatggc acttttgata 240
catgttatca taaagggtgct taatagactt gaattaaagt tttccaaat ctgtaaacaa 300
agcaaaaaat taaattgtaa tcatttgatt atttttttaa ttggtgcttt atatttngtt 360
tctcctccan aattaaaaanc tgcaatttat tgttccccca gcttttgaag ttttttcctn 420
tactcaanta atgccaatan ctcccattgg tttgaaattc ccccttttng ggaaatnaat 480
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3493

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3495

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<400> 3864

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cccanencn tggnrtgagna atgcctngct gctgnangtg tattggacct nnatattgca 120
ttactagagg tncrtgaagac tgccctctnc cacnatggcc tatcacgtgg aattcccca 180
gctgccaaang acttatacaa atncgtgtat cantctcaat actgtgggtt ctngcaacac 240
ggaaccaaac tgccnccca 259
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<210> 3865

<211> 232

<212> DNA

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<400> 3865

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tnnggacnt gcgtctgcnt ccgatgtagt ctatggaaat gtgttgtttc aattgaactg 180
taacangaaa atctggcctc acccatttta tagttganac acggaanagg at 232
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<211> 126

<212> DNA

<213> Homo sapiens

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<400> 3866

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cttgtgtgaa cntataaaan aatggtggcc gcgctgtgcc tgctcatntt gcctacatgt 120
cccnnng                                     126
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<210> 3867

<211> 315

<212> DNA

<213> Homo sapiens

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tcccttcaca attgactgag tatggataac cgtacataan catttgctac accccaccag 180
ccccctcccc ctcagaaaca ccagttcctt cccaagggca gctgtgccag actccccctcc 240
cgggactgcc ttcttgtcat cataagcaaa aaaaaaaaaag gggggggcccc cccaaaanaa 300
naanaatttt tntna 315

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<212> DNA
<213> Homo sapiens

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 gtttaaancc ccggggggnt tccccccggg ggnaaaaann tttccccccc cccggggggg 180
 ggttttcccc gaaaaacccc cccaanacg ggcccgggnt tttcccccg ggtttggggn 240
 ccccccccn ttttttgggg gtntntcccc cccccccca aaaaaaaaaa aaaaaaatt 300
 ttttgggtt 309

3501

<210> 3869
<211> 356
<212> DNA
<213> Homo sapiens

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cccacccat nanacctgta ccactcagga aggatcacga ccaaatnagt ataggggtnc 180
ttctntnaac tttctgtatn acatccgaac tnatgatnnc ancggggggtg gtgttggcag 240
ttggaattgn gggcctcgag ctggctgccca tgattgngtc catntntcta ttactgcaat 300
ctacaangaa tccgcttact gcctctgccca ctaatggntg cccccctggg aactct 356
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<212> DNA

<213> Homo sapiens

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ttaaaccctcg gggggttccc cggggggnaa aaattttccc cccccggggg gggtttcgg 180
naaaccctccc caaccnggcc cgggttcccc cgggaaaccn ccaaaaaaaaa tttttaaaaa 240
ggnaatttgg gggtttaaaa aggaaacccc cttcccttgg gaaaggnaac ccccaaaaana 300
anaatttttt tttgggtttc ccccccaaat tcccttcctt ttaaccccc cccccctttc 360
cnaacaaaaa acccttgggc cttttttaac ccaaggnaaa aattgggggg aaattccnaa 420

3507

ttgggtttcc ccccccccc tttttnaatt tgggttttgg naaagggggt tgggaaaccc 480
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ttggnaaaaan 550

<210> 3871
<211> 277
<212> DNA
<213> Homo sapiens

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gctcttctca ttccacccct ccctttctctc cctgccccca ggactggggc acttctgggt 120
ggggcagtggt gtcccagatt ggctcacact gagaatgtaa gaactacaaa caaaatttct 180
attaaattaa attttgtgtc taaaaaaaaa aaaaaagggc ggccccncta aaaaatccaa 240
ncttactttc nctttcatgc aacttcatan ctctnct 277

<210> 3872
<211> 550
<212> DNA
<213> Homo sapiens

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3508

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3510

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3511

ggggccaaag ggggggtttaa acccccnggg gggtttcccc cgggggggaa anaatttttc 180
ccccccccgg ggggggggttt nccgggaaaa ccccccccaa accggggccn ggttttcccc 240
cgggcccttt gggnggnttt aaagntttgg ggggcccccn aaccaanaa agggccccct 300
ttggggggcc naaggncct tnggttttaa gnnaaagncc ccngggccct ttaaaaacc 360
ccttnccccc ccgggaaacc aacccccctt ccccccttc ccaaccccca accaaaccaa 420
ngnggaaacc cccctttgga aagnttgga agnggaaagg ggaagggggg ggcttggggn 480
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<210> 3873

<211> 450

<212> DNA

<213> Homo sapiens

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ttcccccccg ggggggggttt ccggnaaacc ccccaaaccg ggccgggttc ccccgggaaa 120
ggggggccaaa ttttcccccc cccctttttt cccaaccaa aaaccaaagg tttaaagnaa 180
aggnaaacccc cttnaaccna accaanggtt tgggaaaaac cttttttttg gggggggggg 240
aaactttttt ccttgggaaa gnaaattccc aaggncggg tttccccctt aacccccaaa 300
aaggnaaacc cccccccaaa ggcccccccc aaaaaccttt ccaaaaagg cctttaaccc 360
aaggnccaaa gncccaagg ccaacctttt tccccccca aaaggncccc nttggccctt 420
ggnaaccccn aaccaagggt tccaaccnaa                                450

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<210> 3874

<211> 557

<212> DNA

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3515

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<400> 3874

3516

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agctgggagg ggactgaact ctggagggtg ctctggagct ggatgtgaca ccaagcatca 120
ccagattggt ggtggaatgt gggggaagaa caggagccta ngagaacagt cccaccccag 180
gcaggctgga gcacctgaat ggatagagga ngtcgttcct gaactgggca gcctgggcag 240
gacacanatn ttggaaatga aaccaggggt cctctgatac aggttacatt tgaaatgttt 300
gcaaaaatcc agttananat gtcaaaaaag cagttagatc ttgtnattct gaanctcatt 360
tnaaaatcca aaatagccca attttagttt ggttttctcc aaccttaact tattagggaa 420
tggntttgaa ttccctgcca naaagaatgt ttnacngaag tnaanaaagg atcccctaga 480
acaanttatg cttaatcccc ttttttgatg gtcenatnaa gaagaaanac cccttnngga 540
aaaaggaaaa accnggg                                     557

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<210> 3875

<211> 550

<212> DNA

<213> Homo sapiens

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<222> (31)

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<222> (42)

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<222> (121)

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<222> (139)

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3517

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<220>

3518

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<220>
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3519

<222> (423)

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<221> misc feature

<222> (426)

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<222> (474)

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<222> (481)

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<222> (513)

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<400> 3875

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ggggaaaaaaa aggccttggg ggtgggaccc cccccctttg gcccaaggng gtttaacccc 120
nggggggttcc cccgggggna anattttttcc ccccgggggg gggtttcccg gaaaccccc 180
caaaccgggc cgggtttccc cggcnaaaaa ggccctttaa tttccttna agnnaaanna 240
aaggnccecn aaccaaattn ccccttggg tttttaggaa aacnttggga aaaaaaagg 300
ttggggggcc naatttggcc caanaaggna aattnaaaaa aatttttttt aaattttntt 360
nggncccttg ggtttttccc cttttttggg tttcccttna acccttgggc cttttttttt 420
ttntttnttt ccccccccc ctttttgggt ttgggtttgg cccttgggtt tcnaaaaaag 480
nttttttttt tgggggggtt aatttcccaa ngnaaaaaaa atttaaaaaa acccaatttt 540
tgggaaaaaaa                                     550

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<210> 3876

<211> 101

<212> DNA

<213> Homo sapiens

<220>

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<220>

3520

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<220>
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<222> (75)
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<220>
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<222> (97)
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<400> 3876
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aaaggctttg gggtnggacc ccccccttgg gccaaagnggt t 101

<210> 3877
<211> 556
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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3521

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<220>

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<222> (456)

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<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

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<400> 3877

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tttctcccta ctgtcaaaaa aatatgcatg tatagtaatt aggacttcat tcctccatgt 120
tttcttccct tatcttactg tcattgtcct aaaaccttat tttagaaaat tgatcaagta 180
acatgttgca tgtggcttac tctggatata tctaagccct tctgcacatc taaacttaga 240
tggagttggt caaatgangg aacatctggg ttatgccttt tttaaagtaa ttttctttaa 300
gaactgtcac atgttntttg ttgaattgtg gaatttgta ctctgccttg gactatggac 360
agtcaacaat attttcttaa aaatttgcac tattgcanaa cgggtgttat tatccaaggt 420
actccttacc ctaatttttt tngtttctgc ctggtncceg ttacaanaaa cattttccct 480
tttaaattgg ttaccttgcc ttttttaaaa cttttgnttt taacccccct ttaaaaaaatc 540
ctgcctttat tgggca 556

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<210> 3878

<211> 99

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

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3522

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<220>
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<400> 3878
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ttttaaaaaa tgntcctttt tttntnntg attagtntt 99

<210> 3879
<211> 289
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
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3523

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<222> (180)
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<220>
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3524

<400> 3879

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ccagatttca ngaaactttt tttcttttaa gctanccaca gcttacngca atttgataaa 120
atatactttt gtgaataaaa attgagacat ntacattttc tccctatgtg gtcgctccan 180
acttgggaaa ctattcatga agtatatata ttgtatggta atatagttat agcacaantt 240
caataaaaat ctgctctttg tattgcnctg attgtgngct angcacnga 289
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<210> 3880

<211> 67

<212> DNA

<213> Homo sapiens

<220>

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<222> (39)

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<220>

<221> misc feature

<222> (41)

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<220>

<221> misc feature

<222> (49)

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<220>

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<222> (54)

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<400> 3880

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tatttnt 67
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<210> 3881

<211> 144

<212> DNA

<213> Homo sapiens

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3525

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<400> 3881
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ttaaaaaaga aaaaagaagg gtnattgcng ggattgaagt tcgcctggcn gtctatccgc 120
ncaaggatcc tctgtccttc atan 144

<210> 3882
<211> 99
<212> DNA
<213> Homo sapiens

<220>
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<220>

3526

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<222> (33)

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<220>

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<222> (52)

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<220>

<221> misc feature

<222> (93)

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<220>

<221> misc feature

<222> (99)

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<400> 3882

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attcccgggt cgaccacgc gtccgctccc gcngggccn 99

<210> 3883

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (39)

3527

<223> n equals a,t,g, or c

<220>

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<222> (41)

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<220>

<221> misc feature

<222> (94)

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aaaaaaaaaag ggggggggcc cccccccctt tttngggggg 99

<210> 3884

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

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<220>

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<222> (12)

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<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

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<220>

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<222> (38)

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3528

<220>

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<222> (45)

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<220>

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<222> (92)

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<400> 3884

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aaaggggggg cccccccct tttttggggg gncccaaaa 99

<210> 3885

<211> 104

<212> DNA

<213> Homo sapiens

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<222> (3)

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<222> (103)

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<220>

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3529

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gcccccccc cccctttttt ntttaaaaaa aaaaaaaaaa aann 104

<210> 3886

<211> 188

<212> DNA

<213> Homo sapiens

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<220>

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<222> (12)

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<222> (19)

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<222> (115)

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<222> (118)

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<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

3530

<220>

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<222> (172)

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<220>

<221> misc feature

<222> (186)

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<400> 3886

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ccggcagggg cttggggcag ccncacctct cctccacca gaccaagtgc ctganganct 120
gcctgccttc ttccatctga aaaagcaccc tcctccccc tttgacttgc angagccacc 180
aggganca 188

<210> 3887

<211> 542

<212> DNA

<213> Homo sapiens

<400> 3887

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aaaagaaaaa atgctttata gcaaaatgaa agagaacatg aaatgcttct ttctcagttt 120
attggttgaa tgtgtatcta tttgagtctg gaaataactg atgtgtttga taattagttt 180
agtttgtggc ttcatggaaa ctccctgtaa actaaaagct tcagggttat gtctatgttc 240
attctataga agaaatgcaa actatcactg tattttaata tttgttattc tctcatgaat 300
agaaatttat gtagacgcaa acaaaatact tttaccact taaaaagaga atataacatt 360
ttatgtcact ataattcttt gttttttaag ttagtgtata tttgttgtg attatctttt 420
tgtggtgtga ataaatcttt tatcttgaat gtaataagaa tttggtggtg tcaattgctt 480
atttgttttc ccacggttgt ccagcaatta ataaaacata acctttttta ctgcctaaaa 540
aa 542

<210> 3888

<211> 561

<212> DNA

<213> Homo sapiens

<220>

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<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3531

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<220>
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<220>
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 <222> (551)
 <223> n equals a,t,g, or c

<220>
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 <222> (552)
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 tcagcgtggt ggctcactgga aagagccttt tccttctcct tttcttactc tccccctcatg 120
 gtgttccccct cttaaaggag aggagctttt aatttacact taccacctca tttgcttttc 180
 tggaggccat gcaatatagg cgggactaca gagttaatct cttttttaca aatgaggcca 240
 agagaagcct nattgggttca cagtcatgca gctcactactg tccacccttg tattctcaga 300
 tgcaggacaa ttgcatttta gttttatttt gtggaggtgc agaataattta ctctttctgt 360
 ccaacccttg attctgccga ggaagacact gatggtttga tgagtgattc agctgttttg 420
 gctaaggggc ttttggagct gatggcaggg gtttgatnaa ttcaaagtag ctntagacat 480
 tatcacagac tgaatagatc tttaactggc tcctacatgt gtgnntttcaa atgtgtatag 540
 aatgctatng nnattaaata a 561

<210> 3889
 <211> 103
 <212> DNA
 <213> Homo sapiens

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<220>

3532

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naagtatggt acccctgcng gtaccgggtcc gganttccccg ggtcgaccca cgcgtccggc 60
cgnntaagag aagttgtaaa gtatgtatta ttcggccctg gnt 103

<210> 3890
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<212> DNA
<213> Homo sapiens

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3533

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<400> 3890

ttacnaaana gaggatttac aaaaaccagc tagaggatat gatggaaaga agcaaataaa 60
anncgggcag gcn 73

<210> 3891

<211> 338

<212> DNA

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3534

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atgcacacaa tgccacgtgc ctngtgaaag catgaagcaa aagaaaggat gagatcaaag 60
cctgacccaa cttgacttnc tncntagnt gagccaccgc accttgctgc cccntctctc 120
cccttttgcc tctgtcaaat gacctactct gccctntntc ccagntgctg ctagaccag 180
agcacttgga gcaaccagct ggagggtttg gtaggctcac ccttggtgtg ctgatttctt 240
ggctccacag ttctcaatgg nttgagccag ctcanntctt ttctcacagg gaactggagc 300
aaaaatcctg tangagcaat tcttgngtt ggacaccc 338

<210> 3892
<211> 70
<212> DNA
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3535

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<222> (61)

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<222> (69)

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<400> 3892

gctgttttta aaaagtaaag ttcttagagg ataaaaacag ccaccaant ggngcntttt 60
naaggatcna 70

<210> 3893

<211> 132

<212> DNA

<213> Homo sapiens

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3536

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ctggagagaa aggattagga tagaatggga gaccngcttt gcacaannat tccanggtat 120
aggcgccaan gg 132

<210> 3894
<211> 310
<212> DNA
<213> Homo sapiens

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<220>

3537

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cacgcgttcg tgtttnctgt agactgaact gctagaaaga tgagatgtta aaattcaata 120
taaacttgaa gaattttgta taattataat tatacaaaat ataggtaggg tgcacaatgt 180
tatcaaatgt tnatcagnat caaatgaaan cacctttgat aagctgcttt tgaaaatgct 240
gccttttttaa agaaatcgnn aattattgac atctgacagn actaacattg nggnagctgc 300
tctacagatg 310

3538

<210> 3895
<211> 349
<212> DNA
<213> Homo sapiens

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<220>
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3539

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gggtcgaccc acgcgtncgt gtggttccac ccaatatctc tcaggcatct acaaagggtc 120
tctcttcctc cgtcagagtc tggactgggt tcaactggtc ttgntnnatt gactgancan 180
atgtgattga caacagctgt gcctaggggt taacctagtg ccccgctgta gatcaagtac 240
ctgactccca gccagaatt gcccatctca gcaaaggagg gtggcattga gacttangtg 300
gatcataggc actnncatct tcatgagncc catcgacat tanaataaa 349

<210> 3896
<211> 69
<212> DNA
<213> Homo sapiens

<220>
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<220>
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3540

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<220>

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<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 3896

gccgggngat ccntgctgtg aggccaaggg cggcatgacc cgaggtggca agnagagcnc 60
gagaacgac 69

<210> 3897

<211> 221

<212> DNA

<213> Homo sapiens

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3541

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<220>
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 <222> (216)
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 ggccattggg ccnnaaagg aaagggcatt ttgncttggc tttgggaaa gtttgtaaa 120
 aatggggaac ccggttttaa aattaaacct tgggntttt ttaaaccctaa aggaaaaang 180
 ggggttttctn ttttgaaaaa anaaaaactt ttgggncccc c 221

<210> 3898
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 3898
 ggccctctcc agcagagacc ctccggacccc tgcagggcct ggacttgggg tgaacagggc 60
 ttcagtcagc gcaagtattc cattttgcatt tggtaatttt tcatgccacc tatttatgaa 120
 tatataaatc tttataccaa atctattttt taaaacatgg aaaagttgcc tttatggaaa 180
 cttggcagag ccagagtgtc cacatttccta aaccattaaa cagatttcta taacaaa 237

<210> 3899
 <211> 53
 <212> DNA
 <213> Homo sapiens

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3542

<220>
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<222> (40)
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<220>
<221> misc feature
<222> (42)
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<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
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<400> 3899
ganacaattt ggcaccactt tgggggcttt tggaaaatch tncccnagaa ngg 53

<210> 3900
<211> 479
<212> DNA
<213> Homo sapiens

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<222> (443)
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3543

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<220>

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<222> (456)

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<221> misc feature

<222> (471)

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<400> 3900

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catcttttcc aaacaccact gaaatcatgg actaggacaa ggtagccca tgagtgttta 120
gaccagtgag gtgagcagct gctggggaca ggacccttgt ctggtatcga tggcagggaa 180
ggctgtgagc ctcccctcgt gtgggcatca gcctcagcct cccagtgggg gtcacccagg 240
gagcatatct cctggtgaga agtacaggag cttcacattc cctggatacn gtcccagccg 300
aaatgttcac cgtgaatccg gcaacctgtg gagctgattt ccatttctaa ggaacgaggg 360
gggatgggga ngaaccccc aggacagcac caacagtcct gcggggacct tttcccggac 420
acccggtctt ctteggtggt gangcatgtg gcnnngntccc gaaaggcccc nggggggga 479
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<210> 3901

<211> 421

<212> DNA

<213> Homo sapiens

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<222> (217)

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3544

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<222> (331)

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<222> (418)

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<222> (421)

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<400> 3901

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ggcaggcacc tcaagaagat ggaccttgga ccaaggctgt aactccacct gtgaaagatg 60
ataatgaaga tgttttctct gccagaattc agaagatgct gggaagctgt gtatctcatg 120
caacttttga tgatgatctt cctgggtgtan gcaatcttag tgaattttaa aagcttcctg 180
agatgataag accacanagt gccatatcaa gctttanagt gagatccctt ggtcccnac 240
cacaagggtc actggcacan ttatgtaaaa ggcatactga ctcttntagc tctgatatgc 300
aagcctgttc tcaagacaaa gccaaaatat ntcttggttc cagcatagat tcagtcagtg 360
aaatggcctc ttcttagtga agggagtctc tctgaanaag agggatacc tngatggnca 420
n                                                                    421

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<210> 3902

<211> 421

<212> DNA

<213> Homo sapiens

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3545

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<221> misc feature

<222> (410)

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<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 3902

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gcaattctga ggtgggtttat tgggagtcct tctacatttc tcttagataa ctctgcactc 60
tgggtggcta ttgtgtagcc ttactgcccc agagtgcctg ttagccaaat atttccccctc 120
tgataggaat attttctaag aatcagctga taacttgctg gctggacctt gttatctgtg 180
ccccctgggag acacacgttt tcttgggtttt gaaaacctga aacacaggca actttacatt 240
ttgggggaatt agctgatgcc tcctgaagcc tgaggaggtg gcggggaata tgagcgggtgc 300
tgtctctctc aaaagtgtcc tttagatgat tccccctcct agggctgcct gcaggggctg 360
tatgcttggg aaagattgtg tangtgacag tgaatcagaa tgaagtggtn agattttgtn 420
t                                                                                     421
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<210> 3903

<211> 51

<212> DNA

<213> Homo sapiens

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3546

<400> 3903

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51

<210> 3904

<211> 139

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<220>

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<222> (129)

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<220>

<221> misc feature

<222> (130)

3547

<223> n equals a,t,g, or c

<400> 3904

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tcctatgggtg aatacgacgc atggggcgcat atataaagac tgggggtggna tagatcccag 120
aaanggtcnn tacgaggtt                                     139
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<210> 3905

<211> 475

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<222> (441)

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<400> 3905

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gacagaccca cgaagtcaag catgcggagt gcagccaagc cctggaaccc agccatcaga 120
gcagggggcc acggcccaga ccgggtgcgg cctctgcctg cagcctcttc cggcatgaag 180
agttctaagt cttcaacttc cttggctttt gagtcccgcac tcagcaggct caagagggcc 240
agcagtgagg acacgctcaa caagccagga agtaccgctg catcgggggt ggttcgcctg 300
aagaagaccg ccactgccgg agccatctcg gagctcacgg agagccgcct gaggagcggc 360
acaggggcct ttacaacaac taanccggaca ggcatccag cccacaggga attttcagta 420
actgctcaag anagaggtct ngtgccacgt ggtccctcca acctcangaa atnag      475
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<210> 3906

<211> 69

<212> DNA

<213> Homo sapiens

3548

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
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<222> (60)
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<400> 3906
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ggcatttgc 69

<210> 3907
<211> 77
<212> DNA
<213> Homo sapiens

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<220>
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<220>

3549

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<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 3907
nttgttactc tggttactgg ggnctgtccn cgctggcana gagccgccgc cgcgagggat 60
gctgntgagg aagccgt 77

<210> 3908
<211> 436
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 3908
naaactgtcc tatcttggtc tgtaaaatat tagaacgctt tgttttaca aaaatgatga 60
gagaattctt ccacatgtac ttctgtgctt agaacatttt tacggaccta agcgctggag 120

3550

acgttgctgc atgtcggtg gggttttttt ttcatacacc cgagcacgga aaaactaacg 180
caaaattgta ttttcttacc tagtggaaat ctgaaatgac tgcaaattcc tagtgaatgt 240
acaggtttgc tttcgtgtcc ctctttgggt gctttaaaaa gtgacgtgta atttctgacc 300
catgtttaat ctgtataaaa aaacttctgc cccagttttc tctgncccct ataagagcca 360
acttgagttt atgccgggtg ncattataat tcaataatct tttttcantt aaaaaanaa 420
attaaaaaag ggcggc 436

<210> 3909

<211> 104

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<400> 3909

tnaataccct tggactatcc gactacttag ggaaagctgg tacgcctgca ggtaccggtc 60
cggaattccc gggtcgntcc acgcgttnng ttatatatnc anac 104

<210> 3910

<211> 87

<212> DNA

<213> Homo sapiens

3551

<220>
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<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<400> 3910
aattcccacn gactattcgg aaagctgccc gcctgcaggn accggncctgg aattcccggg 60
tcgtgccacg cgtttttnac agacgct 87

<210> 3911
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3552

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<400> 3911

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tgatatagtc tcattttttaa ttgtcctgta atggaacagt agnaaattca ctaaactttt 120

3553

gtgttcagag ttaaattgnt ctcagtactt tcaatgtagg ggaatgtaat aaacatagng 180
tgtatgtttg gggttttaatt acacatttta tatatgagcc atttagatat gcagtgttaa 240
ttctatactg catttggaagt gtatgtaact tagcttatgt taatgcagtc atgaagttgg 300
tttgctccag catcacggta gtctttaaac attcttttag tgaaattgtc attgntntat 360
cagtgtctaatt gtgtgcaagc agngntttta cctgcttttc tcctggcatc anaaagtggc 420
ggc 423

<210> 3912

<211> 72

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<400> 3912

nttaataagc tagaantatt acaaccctg tgtntntggg ncttatcaaa tacttagtat 60
catggggggt gg 72

<210> 3913

<211> 106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

3554

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
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<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<400> 3913
nccaggatta aaagccatga gtttcttgtc aaaaattttg ctgctctcct gctggggggg 60
gggggggggc agtataccac ngaaatganc tatancaaag nctnta 106

<210> 3914
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3555

<222> (561)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (674)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (684)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (686)
 <223> n equals a,t,g, or c

<400> 3914
 gcgtgcaacg tggctccgtg cgctgctcct gtggcgggcct ggccctctccg tgccccctcct 60
 ggcccttggg ctccttgccc tcagaagagg ggccccgtca ccctcagaag agggggccccg 120
 tcaccctcag gtctgggcta gcccggacta gggagggttc ccctcccttc tagacacttc 180
 catggcccca gctgtcctga gacgcggctc cagaatccaa ccaggcctga atggcacctg 240
 ccctctcagc gtggagcgtt tgccaagagc acgcccactg cagggcgcca ggctagagcc 300
 tggaaatcta agcggggccc ggcctgcccc gctccatgga gtctagggtt cacaacgagg 360
 caccgccaaa acccaggggg tgacacagga ggggaagggc ccaatggagc cagggcaggg 420
 tgctgtgtgc acccacttgc actggccttg ccttggtctc ctgccagccc cctggcaggt 480
 gacactgtgt gtaggcagag cccgagcctg ggctgcaagg cattccacac acgcagnatn 540
 canagagagg atccaggtca nggcccggga aagccttgca tgcttgggac acaagtcggt 600
 cttggaaaag gacaagcttg gaagggggga caagtnccca aaanacaacgt taccggcttg 660
 ggaattttcc tttnggcctt tgancnaaaa agccttaaaa a 701

<210> 3915
 <211> 70
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (9)
 <223> n equals a,t,g, or c

3556

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 3915
gagcccgnt tatggaagat gaanaggagg atatgggggt ggaatgacct aatggagnaa 60
aacacattnt 70

<210> 3916
<211> 88
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<400> 3916

3557

gctcaagggtc tcctccttcc ctccccccnc ccacctagan tgggcctcat tgggcagaag 60
ttgcagnctt tnttanattg cctgcaaa 88

<210> 3917

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

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<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

3558

<223> n equals a,t,g, or c

<400> 3917

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gattaaggga nngtcgttct cagtgaaaat ccaaaaacca gaaaaaaatg tttataacaac 60
cctaagtcaa taacctgacc ttagaaaatt gtgagagcca agttgacttc aggaactgaa 120
acatcagcac aaagaagcaa tcatcaaata attctgaaca caaatttaat attttttttt 180
ctgaatgaga aacatgaggg aaattgtgga gttagcctcc tgtggagtta ncctcctgtg 240
gtaaanggaa ttgaagaaaa tataaacacc cttacaccct tttttaatct ttgccattta 300
aaagtctctg cttaactttt gaattccatt tagagaaaaa aattcnttgg taccagaggaa 360
ttcatttcaa tttcnaattt gaaatagggt gnng 394
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<210> 3918

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

3559

<400> 3918

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gtccatattt ctctgcatct tctcttggag tgagggaggc tacctggagg ggatcagccc 60
actgacagac cttaatctta attactgctg tggctagaga gtttgaggat tgctttttta 120
aaaagacagc aaactttttt ttttatttaa aaaaagatat attaacagtt ttagaagtca 180
gtagaataaa atcttaaagc actcataata tggcatcctt caatttctgt ataaaagcag 240
atctttttta aaagatactt ctgtaactta ngaaacctgn catttaaate atattttgct 300
ttagggaaaa gctttgggtt gtgttcgtgt tttgnttggg tcacttggtt nccttcagc 360
cccaaanctt ttggtcttnt cc 382
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<210> 3919

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<400> 3919

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atgcctcatt tgatgnccct ggtccgcttg cagggtccggc cggaattccc gggtcgcccc 60
cgcgctccgta atgatctgca tcagttgttaa aggggaattg gtatattcac agactgtaga 120
ctttcagcag caatctcaga agcttacaaa tagatttcca tgaagatatt tgtcttcaga 180
attaaaactg cccttaattt taatatacct ttcaatcggc cactggccat ttttttctaa 240
gtattcaatt aagtgggaat tttctggaag atgggtcagc tatgaagtaa taggagtttg 300
cttaatcatt tgtaattcaa acatgctata ttttttaaaa tcaatgggga aancttagac 360
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3560

taatttttaaa atngtnccat nn

382

<210> 3920

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

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<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

3561

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 3920

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tggaactgcat ttaaatncca ttcccatcctt aantgtgtac tcanatataa tgagangtct 60
cattcgactt antcttgact tctgtgtcat tctttaaaacc ttttatggct agagtttcca 120
ctatcccaat caaagaattc agtncacatc ccagaatcca taaatgtgtt ctggncact 180
ctgtaataag gcaccaagaa ttaccactaa ttcatncaga tttacctat canaatanca 240
c                                                                 241
```

<210> 3921

<211> 110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<400> 3921

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gcggaanatg gcccgcctgc aggtaccggt ccggaatttc cgggtcgatn tacgcgaccg 60
ntttaagacc nggtgataac tgagcctcaa tggngcagaa actnggggct 110
```

3562

<210> 3922
<211> 138
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

3563

<400> 3922
gaagaacgng aanganggag accgcnggga gcagagcaaa accagggaac ccaacaaaca 60
aaagaacggn gccgaagaac gggaccgaac cccacccgaa gngccaagaa acccgaggan 120
anccggacccc gcnacgcc 138

<210> 3923
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>

3564

<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<400> 3923
gggnttttaa agccaggcct gccaggaccn ccaggcggna caggtgcnaa aggcctccga 60
ggaatcccag gcaacgcagg agcngatgga ggaccagggc ccaggggctn gccaggagac 120
gcaggncgng aagggnaccc aggaccccca gggnacatag gaccccgagg atccaaaggn 180
gcagngggcc ancctggccc agatggatcc ccaggaccca ncggcctgcc agggccagat 240
gggccccctg gggaaagggg ccn 263

<210> 3924
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

3565

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>

3566

<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<400> 3924
aattggggcca ccnggggttaa cccccggggg gttncccccg ggggtaaaaa atnttcccc 60
cgggggggggg ttnccgggaa acntctccaa accgggcccc gggttnaaac cgggnntttt 120
tttgggaaaag anaaattggt aaaattgggg gggcaattaa aaggncctt ttttttaaac 180
caaagggggcc naaccnaaat gggggcccaa atgggggtttt taaagggggg cccaaaaagg 240
gttaaatttc caaaaaaggg ntnttaaaaa ttntttttnc cccnccttgg ggtggt 296

<210> 3925
<211> 152
<212> DNA
<213> Homo sapiens

<220>
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cctctcacat gattacttga cagctaagca tctgattggn ttactgctgt accactgagc 120
tgaaatgccg tgtgnnccat tnatgtaaaa tc 152

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<212> DNA
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3568

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catttccagn gtgaccngca gcaggctttt ttcccccaag aaga 104

<210> 3927

<211> 99

<212> DNA

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3569

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<222> (97)

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cccgcntgca ggtaccggnc cgntaattcc cgggtnac 99

<210> 3928

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<212> DNA

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cccgccggca ggnacacggt ccggaanncc cgggttnac 99

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aatactgtag tgctaagccc aaaacattta agtcggatga tcgaggataa tccttttagaa 120
ttatggaaac ttggaattgg aacacagttt tagtagcctt tagaacaatc agcacacgtc 180
aacaggacac tcccaccaga gcagtctggt tgaggcattt cttgaagcct aaatccaaca 240
agaaggccca gtcaaaaaat atggcagcct cactcacggt tccccattat gttgccttcg 300
aattcctgaa ctcn 314

<210> 3930
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<212> DNA
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<220>
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cctcaccaga accagttaag agacaactat caattcttga gacccaaatt ataagggccc 120
tgccctgtac tgaagaaaaag gggagcacaa ggccttaatg gacattgact tgtgaaaacg 180
caaacatgaa tatggttgga gagccctgga ttaggagggg gacatgggga aggcagaggc 240
tggcaccatg gtgactgccca cataataaag tggtgatttg gaaaaaaaaa aanngnnn 298

<210> 3931
<211> 114
<212> DNA
<213> Homo sapiens

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<220>
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<222> (113)

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ttacaaactc atttataant atacgtacaa aatggaaaaa tagaaaagta ggng 114

<210> 3932

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<212> DNA

<213> Homo sapiens

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3573

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aattcccgn tcgncccacg cntcntnaaa aacaanaaa 99

<210> 3933
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<212> DNA
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3574

cccgggttcga cccacgcttt cntgacnatg ngtgaagga

99

<210> 3934

<211> 99

<212> DNA

<213> Homo sapiens

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cccacngtc cganttnant ttcaaacc aa aaaaaaaa

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3575

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52

<210> 3936
<211> 88
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3576

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<211> 80

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ttnanccnat gatctactat 80

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<211> 66

<212> DNA

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<400> 3938
ctgatcaaga atttgngtg gacgtaggcc ctgntgagct tttataaac caaactctat 60
atgaaa 66

<210> 3939
<211> 117
<212> DNA
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gtattcatga atcacatagt tncaacgacn tcacacctgg gaaagggaat attgcta 117

<210> 3940
<211> 189
<212> DNA
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3578

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cagtaagaag aaggaaaaaa gcaaatgagc aaacagtact atcataagcc nagaiaaaaa 120
ctgcactgga aagaaatata ccaaactgtn ttntaaaaaa aaaaagnggc taggttnggg 180
tactagaat 189

<210> 3941
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<212> DNA
<213> Homo sapiens

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agagagaggc cgatccgtgt tccccgtgtt gctatgtaag gaggtgcggg accgaggaac 120
ctaggtgttg acagggacag gcaaggcggg ggacgaagag aaatgaaagc cacatcgggtg 180
gcggtatgtt tgaacacaac tcgctcgcta ccgcacgttc cccgctccgc actcancgga 240
tccccgggacg gcagcagggtg gctcctgnac gtgcgccggc tcttgcaang tgcaaagagt 300
gcaaattgcac cttctgcaag aagagctgct gttcctgctg ccccntgggc tgtccaagtg 360
tgcccatgct gcgtctgnca aggggcacn ganaantgc 399

<210> 3942
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<212> DNA
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tattgttttaa ngtttcctca aactgtgatt tttctgaaca caataaacta tnttgatgaa 120
aaaaaaaaatt aantaanaan taaaaa 146

<210> 3943
<211> 353
<212> DNA
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ataagtgtgc acctnagacc ttcagntagn cttttattta tttagaataa aaaatagntt 120
gataacctac cagagttagt gcttntttta aaacactcct tggaaagatg gggactgtcc 180
cttangaaag ccatanaagt gattnccaat actttgnaat tgcttttgat ttnagggtcc 240
tttggaaaca atgtgtgatg ttatgtctga tgntgtgttc ttagagctgt gaanagtttg 300
aaaaatntca aggggtttat ttaaattgatg aattatctgg ntgaaattat ggn 353

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3583

<211> 52
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<210> 3945
<211> 456
<212> DNA
<213> Homo sapiens

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 ttacactagc ctttttagatn tactgttagac atctgtgaaa aattatgaat tggcctttat 120
 tacaagactt tgttttcaaa cttttatttc tgttccaatg taaatgataa tcgaacttta 180
 ctggagaaaa gacccatgat tttaaata gttntatgtc agcttatagt ttacatcag 240
 agtccatata gctgttagaa agttatgtgc tactgacaaa ataacagttg gcaaaacata 300
 agacaaaatc tacaatttta ttcacaggat ctaactaatg taccattatt attaccaatt 360
 gatctcagtg tgctataatt ttggtaacaa tttctttgat atgcttttaa aaatatatat 420
 atatttacaa ataaaggnat aatttttaan ananna 456

3585

<210> 3946
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<212> DNA
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<222> (140)
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<220>
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<222> (141)
<223> n equals a,t,g, or c

<400> 3946

3586

cnnctnatgg aatctcnact ataggttaag ctggtacgcc tgcaggtacc ggtccggaat 60
tcccgggtcg acccaccggt ccgtgaaatt nagttatagt ttaatctttg taatctcact 120
aatgggtttt ataatgaan ncggaa 146

<210> 3947
<211> 68
<212> DNA
<213> Homo sapiens

<220>
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<222> (15)
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<220>
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<222> (24)
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<220>
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<222> (27)
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<220>
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<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<400> 3947
gcaaagaggg cttcnaaaac tacngancng taagggcggg actcaccata gaatgcaatg 60
antatgtg 68

<210> 3948
<211> 335
<212> DNA
<213> Homo sapiens

<220>
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<222> (271)
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<220>
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<222> (276)

3587

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

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<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<400> 3948

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gctgtactgc	tgggcaccct	gggtccaaac	ccacctccat	ctggacctgc	taggtgccat	120
tgtccaggcc	tttctccag	acagctcttt	gtagacagt	gcttcccatg	ctgactgctg	180
tcccagaag	cggaggctcc	atcacaggcc	cccatgccca	gcttgccctt	ttgtgcaggc	240
ccagtggagc	aggcagcaag	taaaggagga	nctggncacc	tggctgggac	cattgacact	300
ggctgagcta	cagngctggc	tgggcattgn	tggnng			335

<210> 3949

<211> 179

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

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<222> (68)

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<220>

3588

<221> misc feature
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<220>
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<220>
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<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<400> 3949
cnttcnttgg gcctttaatc tgccnatcca ttcgatgaca ttggaaggcc taatatatgc 60
caagtctnac atgggatgca ttgagacata cganagactg ctataacctca ataagtattg 120
aaaatccatt attacccata agggncatct taattcattt tanggaatna nattcatgg 179

<210> 3950
<211> 104
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3589

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<400> 3950

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ntaggcctac tactaaaggt ggaagtntta gaggttaaaa tgggtgttcnt aaattagctg 60
tatacacaat cattgncatt tactttatga aanggttagga gatn 104
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<210> 3951

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<400> 3951

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gccccantgg accacctccc ttccctgag gcagggagcc cagagctggg tctgctggtg 60
cctggcctgc ggcagctgct tacacaacag tgcacagca ggtgctccca gggcttcttg 120
gctcctgtga ccgctgctc cccagtgtg catcgcccggt gggcaccag gggatggctg 180
tctggaatag aggcagcagg gtccctgcacg ctgttcattgt actatccgtc cgtggggcgt 240
gcagaacgtg ctgccggctc ttccctggctg cagccttctc cgaccagtc ctccagtgga 300
gggggggatc cntn 314
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<210> 3952

<211> 157

<212> DNA

<213> Homo sapiens

<220>

3590

<221> misc feature
<222> (147)
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<220>
<221> misc feature
<222> (148)
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<220>
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<222> (150)
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<220>
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<222> (153)
<223> n equals a,t,g, or c

<220>
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<222> (154)
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<400> 3952
ggataattat ggataatctt tgatcctaca ccagaactct gcaaattggt tttttaagg 60
ttaattacaa tgtggaattt gaaactatat caatgaactt gtactcttac attaaaagtc 120
attgctttac cttcaaaaaa aaaaaannan atnnaaa 157

<210> 3953
<211> 130
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)
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<220>
<221> misc feature
<222> (12)
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<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3591

<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
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<400> 3953
caanaacctc anacttttagg taaaatcggt catcaagcat aatcccactg tgatnattca 60
nggtccaatt aaaaatttga cgnatgattc caaatgtgac gngaattgaga tcataaagggt 120
ctantatctc 130

<210> 3954
<211> 392
<212> DNA
<213> Homo sapiens

<220>
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<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
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<222> (386)

3592

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<400> 3954

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gccagcctct ctgtggtaca tcgtgtattg cacggagtcc cttttcttcc agagatcttc 60
cttgggagcc ttttctccc gcgcgtcccg tctcggtgcc gccttttgct cccgcgcgtc 120
ccgtctctcc acgccgactt ttctctccgc gcgtcccgtc tctccacgcc gccttttcct 180
cccgcgcgtc ccgntccccc gccgcctttt gctcccgcgc gtcccgcttc cgcgccgact 240
tttctctccg cgcgtcccggt gtccatgtct cctccttgta acatctggag agatttcctt 300
cactttgtgc ctttttctcc atcgattgat ttctttgttt tacgtttaac aattaaagnc 360
ttaatttcta agaanaaaaa aantancana aa 392
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<210> 3955

<211> 138

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

3593

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<400> 3955
gggtncataa ttngttcat aagactgaac tcctgatggt gacttctaca acttgnatat 60
tcagacncga agangaccaa atattcatga aatactggct ntgtgctnat atctcctata 120
agtccgaata tgctgtga 138

<210> 3956
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
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<222> (81)
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<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
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<222> (153)
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<220>

3594

<221> misc feature
<222> (174)
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<220>
<221> misc feature
<222> (182)
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<220>
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<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<400> 3956
natagttgat acaagaattg tgaactcgtn tcatagatat acatacgaca tattgggtcga 60
gatgctctaa ctgngcnata nggttgact attgcagtga tcttgactag agtttanggg 120
gaagtaattg agatttcatac ggaatgcacg tancatatt gttacatgga gaantctagt 180
gntccttgaa cnnttgatc gccccatta aaaaaaggaa t 221

<210> 3957
<211> 116
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
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<222> (68)
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<220>

3595

<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
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<400> 3957
ttacncaagt ggggggagaa taaatgttgt caggctctgn gtcntcggc cattatgaac 60
atgtcatngc gtgcctcatg taccangagt ggaaacacaa tcacctgcct anttca 116

<210> 3958
<211> 126
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
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<222> (43)
<223> n equals a,t,g, or c

<220>
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<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
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<220>
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<222> (105)
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<220>
<221> misc feature
<222> (116)

3596

<223> n equals a,t,g, or c

<400> 3958

ngaaagctaa aaatgctant gagcggcatg atacgtgtga canttaacat gaagggttcc 60
acctgncaaa ctgtcatgna attcccagat ggaccctttg ccatntttgt tgggcnaac 120
ttgact 126

<210> 3959

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

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<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

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<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<400> 3959

gcaaaaccat atttaatttc caggttatct tgaacaaggg aaggaaagat gttaaagctt 60
tgttttcatg gcctgtgtga agctgttaca ggatgtttgt tgccagaaaa ggctggatgg 120
ttttaagaag atgggtcttt ctcttcctc ttatgcttca attntatatt gtacccacaca 180
gcttctcttg aacagcctct tctgatgttn ctaggtagna ggaaccttac aaatacattn 240
atatatatgn 250

<210> 3960

<211> 134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

3597

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<222> (6)
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<220>
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<222> (68)
<223> n equals a,t,g, or c

<220>
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<222> (70)
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<220>
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<222> (93)
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<220>
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<222> (132)
<223> n equals a,t,g, or c

<220>
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<222> (134)
<223> n equals a,t,g, or c

<400> 3960
gaantntgct caatgatggg cctgtctaag attaccatag accatgcccg catctatggt 60
ggacccangn ttacacagga ggacccgtaa ttnaattgtc atataaggac tttaatggct 120
taaaaaaatt tngn 134

<210> 3961
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
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<222> (26)

3598

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<220>

<221> misc feature

<222> (37)

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<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 3961

gataaaatgt acaccctna aaaaanaaaa taaaaanaaa aangtattaa tnaaaa

56

<210> 3962

<211> 150

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

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<220>

<221> misc feature

<222> (121)

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<220>

<221> misc feature

<222> (128)

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<220>

<221> misc feature

<222> (132)

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<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

3599

<221> misc feature
<222> (149)
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tcccgcgccc tccgggctcg cagggacgtc tcctccctcc cggctcgcgg tcccgcgccg 120
nccggacncc gnccagagnc ccagcgcgnc 150

<210> 3963
<211> 216
<212> DNA
<213> Homo sapiens

<220>
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<222> (24)
<223> n equals a,t,g, or c

<220>
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<222> (25)
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<220>
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<222> (27)
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<220>
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<220>
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<222> (77)
<223> n equals a,t,g, or c

<220>
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<222> (108)
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<220>
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<222> (179)
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3600

<222> (193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

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<222> (212)

<223> n equals a,t,g, or c

<400> 3963

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gtgcgacaat tgcaagttaa ttannncnagg gggaaaagga taggacanat ccctggaccg 60
gtagagacta ggccacncca ttgcatagtc ttgtatgaag ctgcgaanac ttcgttcgct 120
aggcgagaaac aagtggacgc ctcggttacac atgtacagca aaatgactgc tgggtcaagng 180
atgaataagt gtntgagtaa cgcttgctgn nnacga 216
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<210> 3964

<211> 149

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (9)

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<220>

<221> misc feature

<222> (39)

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<220>

<221> misc feature

<222> (44)

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<220>

<221> misc feature

3601

<222> (46)
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<220>
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<222> (116)
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<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
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<222> (147)
<223> n equals a,t,g, or c

<400> 3964
ntacaaaang ggatatatat tatgaaatgg tcatttttnt gaananaata ttttgcttga 60
aatgcatagg actgaaagag atttgatatgt tgttgattaa tgtaacttca tactgnaact 120
tttaaaaaana tttnatctgt aaancntg 149

<210> 3965
<211> 139
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)

3602

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

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<220>

<221> misc feature

<222> (88)

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<221> misc feature

<222> (108)

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<222> (121)

<223> n equals a,t,g, or c

<220>

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<222> (129)

<223> n equals a,t,g, or c

<220>

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<222> (137)

<223> n equals a,t,g, or c

<400> 3965

tnaatgttta aatanttgag ggatgtgcct ttcncttat gtcttgctgt atgtagtagt 60
atgtagtagt agcatgatta tatgaagntt caatatgcat taactaangg gatactcaaa 120
ngtaatatng aagaaanac 139

<210> 3966

<211> 117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

3603

<220>
<221> misc feature
<222> (36)
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<220>
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<222> (43)
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<220>
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<222> (60)
<223> n equals a,t,g, or c

<220>
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<222> (113)
<223> n equals a,t,g, or c

<220>
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<222> (117)
<223> n equals a,t,g, or c

<400> 3966
nggggtgactc tttgnccatg tgaggtggta tattcncagg atnctgctgg caagagatgn 60
tattcctgcc cagtctatca aatgatctct gattctttac gtaatggggg ctnattn 117

<210> 3967
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (38)
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<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>

3604

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<400> 3967

gacttgatga atgagagaca agaaagatag ttgcagantc atgtgctcat gaatgcatan 60
aacacntatc anaagcaaaa atggnttgaa gactttgaaa tact 104

<210> 3968

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

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<222> (372)

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<220>

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<222> (374)

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<220>

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<222> (375)

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<220>

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<222> (376)

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<400> 3968

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acaaatgact tgtagaaaat actgtcatat agttcatttc atcattttct gttgcaggaa 120
gccactccac cacagaatgc taatatgcca gtggtaccca gtacctcttg tatatagggt 180
attgcaaata ttgttctgaa atgcttaact tcagaattac atttttttaa gtaaataatt 240
gttttaaadc tattttgtaa agatataaag tacaatagaa tttctggagt acagattaaa 300
ctatttgcac taacacacgt gacgtgcatg atttaataaa ataactttac tctccctaaa 360
aaaaaaaaaa anannnaa 378

3605

<210> 3969
<211> 55
<212> DNA
<213> Homo sapiens

<220>
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<222> (36)
<223> n equals a,t,g, or c

<220>
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<222> (45)
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<220>
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<220>
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<222> (49)
<223> n equals a,t,g, or c

<220>
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<222> (51)
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<400> 3969
ggtttaaaaa catttattgg ctgggtgtgg tatatnagat ttatnnaant ngatg 55

<210> 3970
<211> 84
<212> DNA
<213> Homo sapiens

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<220>
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<220>
<221> misc feature

3606

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<400> 3970

gaaacaatac ataanttnat tgaatctata actngnttta agttgatata atgcattgta 60
ttatatnttg aaacagaata aaag 84

<210> 3971

<211> 92

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (30)

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<220>

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<222> (42)

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<220>

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<222> (43)

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<220>

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<222> (53)

<223> n equals a,t,g, or c

<400> 3971

gatttnccttg agtcttgtag atagaaaggn agctgtcaat tnnaaatcag ttnttcagat 60
tttactgtgg aagcatattt aatgcacaca tt 92

3607

<210> 3972

<211> 238

<212> DNA

<213> Homo sapiens

<400> 3972

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ggcttttcaa tctattttaa gtacagctct ttttcctta tttctgattg tttactctgc 60
catttttcctt taattgtctt ctatatttgt tgaatgctta gcttactaat tttcacttta 120
aaaagaaaagc atataagggtt acttatatga tttttcctct gagaagtgtt ttaatatcat 180
ggattccatt atgcaatatt ttcattatta taatttctaa ataatccaaa aaaaaaaaa 238
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<210> 3973

<211> 152

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

3608

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<222> (142)
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<220>
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<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
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cgggtcgacc cacgcgtccg ggggcggggg tctatacttc ataccgccc taggccttgn 120
tgatgaaagt tncacacaga annagcanct ac 152

<210> 3974
<211> 155
<212> DNA
<213> Homo sapiens

<220>
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<222> (23)
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<220>
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<222> (24)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (28)
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<220>
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<222> (52)
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<220>

3609

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<222> (121)
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<220>
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<222> (128)
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<220>
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<222> (129)
<223> n equals a,t,g, or c

<220>
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<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

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actgtttgca gacctctctc tgacatggcc ttggcaggct gttggaaggc atctagtgga 120
ngccgatnnc tncgaccact cataccttcn catgc 155

<210> 3975
<211> 100
<212> DNA
<213> Homo sapiens

<220>
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<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
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<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3610

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 3975

ctggaactgn gctatccccct atgagggctc aatggaactn gangtctagg atgcagcctg 60
tncacttgcg accntgttta gaggggggtgt acttgaattt 100

<210> 3976

<211> 67

<212> DNA

<213> Homo sapiens

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<222> (7)

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<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 3976

gaacganggg acgtaacgga agcangttgg aacccgttgc cgtcgccnng aaccngggga 60
accagcg 67

<210> 3977

<211> 386

<212> DNA

<213> Homo sapiens

3611

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<220>
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<220>
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<222> (367)
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<220>
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<220>
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<220>
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<222> (384)
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gtgtctaaca aacttaaagc tactgtagta cctaaaaagt cagtgttgta catagcataa 120
aaactctgca gagaagtatt cccaataagg aaatagcatt gaaatgttaa atacaatttc 180
tgaaagttat gttttttttc tatcatctgg tataccattg ctttattttt ataaattatt 240
ttctcattgc cattggaata gatatctcag attgtgtaga tatgctattt aaataattta 300
tcaggaaata ctgcctgtag aagttagtat ttctattttt atataatggt tgnacactga 360
atttaanaat tgntggtttt ntentt 386

<210> 3978
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (254)
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<220>
<221> misc feature

3612

<222> (257)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<400> 3978

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ggctgcctgt acacctgctg cctacatctt cttggcaaca aagttacctg ccacaggctc 60
tgctgagcct agttcctggg cagtaataac tgaacagtgc attttggtt tggatgtgtc 120
tgtggacaag cttgctgagt ttctctacca tattctgagc acacgggtctc ttttgttcta 180
acttcagctt cactgacact gggttgagca ctactgtatg tggagggttt ggtgattggg 240
aatggatggg gganagngan gaggacacac nan 273
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<210> 3979

<211> 156

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

3613

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<400> 3979

gtctgaaaagg aggaattttc attttccttt aaagtgaaaa ggtaaaaaact gcatttacta 60
aaccaggccg gtgggggctc tgtgagcccc tntgcacagg aagcctnaga gactctgcat 120
ggtgttcccg gngcatcctg gccaanagtgg gagaan 156

<210> 3980

<211> 59

<212> DNA

<213> Homo sapiens

<220>

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<222> (39)

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<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

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<222> (54)

<223> n equals a,t,g, or c

<220>

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<222> (55)

<223> n equals a,t,g, or c

<220>

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<222> (57)

<223> n equals a,t,g, or c

<400> 3980

gctcaaggtc tcctccttcc ctcccccccc cccccgtnt atctttcant gtgnntnta 59

<210> 3981

<211> 82

<212> DNA

<213> Homo sapiens

<220>

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<222> (11)

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3614

<220>
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<222> (45)
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<220>
<221> misc feature
<222> (64)
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<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
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<222> (81)
<223> n equals a,t,g, or c

<400> 3981
ggcagggggg ncgctgcagg ccttagggga agaaccacgg gacanggtag aagacaaacg 60
ttgnattggg gcttccttn na 82

<210> 3982
<211> 296
<212> DNA
<213> Homo sapiens

<220>
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<222> (296)
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gcagatactt agatgtttat tgatatgaga ctatgtgggt aaaaaaccca agtatgtcca 60
tgtgtttctt ataaggtaca cttgaaacta gtgagtgttt gtcacatttc actttcatgg 120
tatataaaat gcagtttgca tatataactt gaatatctgg tactagtttt ttcacgctg 180
caatcttgga gtctaggttg ccttgctctc ctatttttaa ataagtgaaa tttgggagat 240
tgtaaaatct gtaaagtttg ttttgtgaaa ataaaatgtt cacagtagaa aaaaan 296

<210> 3983
<211> 133
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)
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3615

<220>
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<222> (13)
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<220>
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<222> (17)
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<220>
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<220>
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<222> (90)
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<220>
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<222> (105)
<223> n equals a,t,g, or c

<220>
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<222> (109)
<223> n equals a,t,g, or c

<220>
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<222> (115)
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<400> 3983
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gcgccgcgcg cctcttnggg gctttaggcn ggcttgcccg cgctngggnt tcccncgtga 120
cagtgtgtg tgg 133

<210> 3984
<211> 452
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

3616

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<221> misc feature
<222> (8)
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<220>
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<220>
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<222> (27)
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<220>
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<222> (295)
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<220>
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<222> (302)
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<220>
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<220>
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<220>
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<222> (369)
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<220>
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<222> (406)
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<220>

3617

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<220>

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<222> (429)

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<220>

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<222> (442)

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<400> 3984

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ggtccggaat tccccgggtcg acccacgcgt cccgggtggan ggataggaga aggtcctgag 120
tcagtgcctg gtggagggat aggagaaggt cctgagtgtg gactgggtgg agggatagga 180
gaaggtcctg agtgaggact gcatggaggg ataggagaag gtcctgagtg agtgcttggt 240
ggagggatag gagaagggtcc tgagtcagtg ctgggtggag ggataggaga aagtnctgag 300
tnaagtgctg ggtggagggg tagganaagg tcctgantgt ggactgggtg aaagggatag 360
gagaaggtnc tgagtgagga ctgggggtgga gggataggag aaagtnctga gtgaggactt 420
ngtggagng ataggaaaag gntcttgaat ga 452
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<210> 3985

<211> 316

<212> DNA

<213> Homo sapiens

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<220>

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<222> (44)

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<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

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<220>

<221> misc feature

3618

<222> (80)
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<220>
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<222> (109)
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<220>
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<222> (120)
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<220>
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<220>
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<222> (160)
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<220>
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<220>
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<220>
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<220>
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<220>
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3619

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<220>

<221> misc feature

<222> (212)

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<220>

<221> misc feature

<222> (252)

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<220>

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<222> (278)

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<220>

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<222> (307)

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<220>

<221> misc feature

<222> (308)

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<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<400> 3985

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naccgggtccg gaattccccg gtcgacccac gcgtcttgca aaantaaagg ggctacagaa 60
aacttgattt ttangctggn cctcttggg cttcatgcaa agacaantnt gtgtaaatgn 120
acagaagact ctgatttgga aatatgaaaa tcagtncatn cttgntataa aaaatntttt 180
nacaatngta attatattga agntcatatt gngtaaaata actcatttaa taaaatagaa 240
ctttgattca cngacaaaaa aaaaaaaaaa gggctggncg gctctaaagg atccaagctt 300
acgtacnngt gnatgc                                     316

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<210> 3986

<211> 57

<212> DNA

<213> Homo sapiens

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<220>

3620

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<222> (12)
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<220>
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<222> (40)
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<220>
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<220>
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<400> 3986
gctnaagggtc tntctcttcc ctcccccccc ccccccggtt tatntttang acaataa 57

<210> 3987
<211> 100
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
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<222> (62)
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<220>
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<222> (86)
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<220>
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<222> (94)
<223> n equals a,t,g, or c

3621

<400> 3987

gcaccnaccg gtccggaatt cccgggtcga cccacgcgtc ntgaggtttt aagatgccgc 60
antaggattg gatgaatggg aaattntgct tgcnagcttt 100

<210> 3988

<211> 108

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (21)

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<222> (59)

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<220>

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<220>

<221> misc feature

<222> (102)

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<400> 3988

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gaangagacg gcaccctgac caagtcagtt acagaaccgc tnagaatg 108

<210> 3989

<211> 104

<212> DNA

<213> Homo sapiens

<220>

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3622

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<220>

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<222> (58)

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<220>

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<222> (65)

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<220>

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<222> (91)

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<400> 3989

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cagancatct gttacccan aaacaggggc nctatatttg agcc 104

<210> 3990

<211> 85

<212> DNA

<213> Homo sapiens

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<222> (46)

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<220>

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3623

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<222> (73)
<223> n equals a,t,g, or c

<400> 3990
gaagnccagn acaccattct tgtccttacc cagtttcttc gccctncacc cctccagctt 60
catgctcagn gtngtgctta ataaa 85

<210> 3991
<211> 66
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (15)
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<222> (60)
<223> n equals a,t,g, or c

<220>
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<222> (63)
<223> n equals a,t,g, or c

<400> 3991
gcgccaagnt gtcnagctg gaggtcgtec tgcattcagac ccaacaatga catggccccn 60
canctt 66

<210> 3992
<211> 128
<212> DNA
<213> Homo sapiens

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3624

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<220>
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<220>
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<222> (103)
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<400> 3992
ggaaccccn tatagggttg ggggacgctc ccnggcgccg gacggccaca ccgggacggc 60
ngacgcgaac ggcgcgtcca ntntccacc cgcgacgagg gcntgtgcgg gcagcaccca 120
gggaggtg 128

<210> 3993
<211> 144
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (26)
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<222> (35)
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<220>
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<222> (128)

3625

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<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 3993

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tcncccccta taggtttgcg ggacgncccg gaatncccg gtcgacccac gcgtccgaca 60
ctcttgggct tacggttgcc aggaagcctt tcccctccag aagacttgcc tgttagggac 120
ctcgcctnnt gggganctc cctn                                     144
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<210> 3994

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

3626

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<222> (152)
<223> n equals a,t,g, or c

<220>
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<222> (153)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
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<220>
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<222> (168)
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<220>
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<222> (231)
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<220>
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<220>
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<222> (283)
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<220>
<221> misc feature
<222> (292)
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3627

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<222> (323)
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<220>
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<222> (337)
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<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
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gcttaataact tgaacatttt gnatatattt ctgtgtatat aattgatgtg cagnaccaat 120
gacaaaaata tgggtgtcata atagaaccag nnnngtngat cttttagnta tgggctcaaa 180
gaatctattc atctctaaca tgatattgga aaataatgga tgaaaatagg naaaatgatn 240
gcaatgctga ctgaggggtct taaaaggtnc tggaaagcag tangttcatt tntctaaaaa 300
ctataacatt ctggaggagt atntttcttcc ttacgtnaat acttttcctg cantatttga 360
aatngtgggc tggggagaaa cagt 384

<210> 3995
<211> 141
<212> DNA
<213> Homo sapiens

<220>
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<222> (5)
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<220>
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<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature

3628

<222> (26)
<223> n equals a,t,g, or c

<220>
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<222> (75)
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<220>
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<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<400> 3995
tgacnagngg acaagatcgg gntcanagaa aacggggcacg acagcaccag aacatggggg 60
aaatacgcca gattngagga ggccaagctg aatgaaaacg gagacgcagg atgaagaaca 120
cactgcagac canngagagn n 141

<210> 3996
<211> 516
<212> DNA
<213> Homo sapiens

<220>
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<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)

3629

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 3996

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gattttctaac ccccttttctt cctaatatgt ttatgtcata attttggcta gattagtgt 60
tacgattttac ataattatta ctctgtaaat gctttttatg atctctgagc catgtagtat 120
attatggcta tttttctttt ttatctatgt gtatttttat tgttattacc taaaaaaaaa 180
ttttctatgt cttatcacta attcttccct aaaatttccc acaattgtgt aaacttacct 240
cagtatatctc atagatatga gacattctat caattttacc ctcttaaaga tgcagagata 300
atgcattatg nttcatccca ccatctttaa tgagaagctt ccatcttaga ttaatattag 360
agaatgttaa aatactctgc aatcaggtaa nggacgcttg aaacttcatt ataatgnaaa 420
agggttttctt ttaacaccat aaatattttg aaccctttnt ggggncttgt attcatangg 480
agtttagaat ngacccttta ttacctattt tttaaa 516

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<210> 3997

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 3997

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ggantaagaa aaagaaaaag aagagaaaga gtcagaagga acgtgataaa gaagtaagcg 60
atgatgag 68

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<210> 3998

<211> 405

<212> DNA

<213> Homo sapiens

3630

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<222> (1)
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<220>
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<222> (17)
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<220>
<221> misc feature
<222> (24)
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<220>
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<222> (33)
<223> n equals a,t,g, or c

<220>
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<222> (83)
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<220>
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<220>
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<220>
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<222> (151)
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<220>
<221> misc feature
<222> (244)
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<220>
<221> misc feature
<222> (346)
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3631

<220>
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 <222> (383)
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<220>
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 <222> (384)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (388)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (404)
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 cggaattccc gggtegaccc acncgtccgc tctggtctcc cagcacctgg cccaggtaac 120
 agncttctga aagcagagcc aagganctgc ntctctcttc tcccagttct acctccccag 180
 aagccttctc ccccagggtgg ggctgatgga gcaagggtcc agactaggag ccttccaccc 240
 cagntgtgtc tggcgccccct agatctctgc aagggaggtg ttacagctgg atctgagccg 300
 cttgccttgt gatggtaaga caccaacctt tacattcttc cctgangttg tggctgacag 360
 agcctgcttg gccccactcg tannccancg agctcctata tcana 405

<210> 3999
 <211> 138
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

3632

<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
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<220>
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<222> (119)
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<220>
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<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<400> 3999
ncnctanagg aaagnttcgg actataggtc aagctgggtac gcctgcnggt accgggtccgg 60
aattcccggg tcgaccatt cgtcgggatt ttctcttttc ggatactagg ggatgaatng 120
ggaanntaaa gngaaaaa 138

<210> 4000
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (33)
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<220>
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<222> (36)

3633

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<220>

<221> misc feature

<222> (60)

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<220>

<221> misc feature

<222> (77)

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<400> 4000

gggaatnttc aatttaaaaa tgagtaaatt canggnccaga ttgaatgccg ttcagttttn 60
tggaatgaat gacattngca ggt 83

<210> 4001

<211> 154

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

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<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

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<222> (75)

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<221> misc feature

<222> (95)

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<220>

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<222> (122)

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3634

<220>

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<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<400> 4001

gncatagtta caatgcaagt aaactggata ctagttcttt tgncagatnt gttaaagtga 60
tgcagaataa tatcntgaag agtattgatt gaagnttgtg atattcatca ataaaaatga 120
gntgataata tgcanaaaaa aaaagccant aaaa 154

<210> 4002

<211> 648

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (267)

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<220>

<221> misc feature

<222> (547)

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<220>

<221> misc feature

<222> (589)

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<220>

<221> misc feature

<222> (602)

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<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

3635

<221> misc feature
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 aaaccagcct gacatattaa agagggcttc tgcagaggtg agcttagtct gaattatgga 120
 agaactttcc aggcagatac aaatgcaaag gccctgcagt gtgaggagct aaccacacac 180
 aaggatggag agcagttcat agtgactgga gcccagggtg cagctaagga gctggagagg 240
 gggaaaggcc ataccaagga gagcctnadc caaagagttt ggaccattaa aggattctag 300
 gaagttcaag ctggagacag caaggaagat gtattggaag tgggtgagag agggatatgga 360
 agatgggttaa gacactcttg gagtaatcaa atgaaaaata atgaaggtag aaactaaagc 420
 agggataaaa aggatggcac tgactctaga ttgttgagtg aaatagatgg catttgggga 480
 caatagatta cagtctaggg agaaggattt gagactagga taatttccca gtctcttaaa 540
 tgggtgangtg attggtgttg cccctgagta ccgaaaggaa gggaagttna ggaatgggat 600
 cnnatttana cagttgggat attttgaatt tggatgtnta aggaaccc 648

<210> 4003
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (207)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (216)
 <223> n equals a,t,g, or c

<220>
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 <222> (232)
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<220>
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 <222> (238)
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<220>
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 <222> (242)
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<220>
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 <222> (252)
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3636

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<222> (293)
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<220>
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<222> (311)
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<220>
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<222> (387)
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<220>
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<222> (403)
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<220>
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<222> (437)
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<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 4003
gatttaaata ttggcttttt ccagtgaact attatgttta gtgtacagtg aaaagtttta 60
atattatagg ttaaaatttt cttaatcggt cttttctatt cgcttgccaa ggggtgaatga 120
aagaacatgg ctgcttctcc cagactgact gaccttggca tccgcataaa gcatcattgc 180
tttcaaaaaat gaagggtgct taattgntcc cttttntcta tattctgtag gnctcatnac 240
ancaaactgc antctacagc ttcttaaagg tcagcgtggt aacctaacat atnacacagc 300
aagaatctgg ntgtctgaac tattttaaat taaggagcca gatgttttta gtcaggctat 360
tctgaccaga cttgacctaa acttcnnttt tattggcata acnggccaat ataattcttg 420
ggccaatttg gccaacngga cnagaaaaaa nc 452

<210> 4004
<211> 180
<212> DNA
<213> Homo sapiens

3637

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
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<220>
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<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
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<220>
<221> misc feature
<222> (179)
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<400> 4004
ggttgaaagt catggaacga ataaagtgtc agatttaggg ttaacatttg ggtctgtttg 60
actctaaagc ccatgttctt tctgtactt tctgttactt cttccctagt ctttaacagt 120
aatcggtcaa ctgtgattaa actttgcctc tctggaaaaa aaaaananaan aaaaaaanna 180

<210> 4005
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
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<220>

3638

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<400> 4005

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gaatagattg aaagcctctt agtgcaggaa gcaggcatca gtatcaaact gatgtcatcc 60
aatgtaatta ttttaagctc caggtttgtc taagtttggg tgaagaatgt tcaggaacat 120
gtttgcaaca tacagttatc cagcttacc tttgacagat tcacccttct catcaaaata 180
cacagtaagc ccaacctaaa aattataagt ttacaaataa aggaatagaa aaacccaaaa 240
agctaattgta cacataaaaa ttatcttttg ctgcaataaa taggtatgga aatatttgta 300
gaattggttt aactgatttt gtaaaacaaa tgatcatgcta ttttgccata gtgagacatg 360
cagtagttct taaaatcaca ttaatagaag gcaagaacat tggaatcaga cttaacagat 420
acagattcag tgataatgac cattgactaa natacttagg aactnctgag aacngatgtn 480
tactgnctcc gtccaactga tgacttatgg gtatagataa tggattt 527
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<210> 4006

<211> 159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

3639

<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
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<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<400> 4006
gggaangccc ncaggtaccg gtccggaatt cccgggtcga cccacgcgtn cggttgtgtc 60
ctntagttga gtttctggcg cccctgectg tgcccgatg tgtgcctggc cgnagggcgg 120
ggctgggggc tgnccgagcca ccatgcttgn ctgaagctt 159

<210> 4007
<211> 123
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (12)
<223> n equals a,t,g, or c

<220>
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<222> (62)
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<220>
<221> misc feature
<222> (89)
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<220>
<221> misc feature

3640

<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<400> 4007
gtgnagggnt tngggaacgc ccccagggtac cgggtccggaa ttcccggggtc gacccacgcg 60
tncgtatttt taaatttggg caacccttna gtgcaaggaa tnaaantagn actgatttga 120
cag 123

<210> 4008
<211> 142
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
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<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

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3641

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<222> (136)

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gcttctanng gaacgctntg gataggncctt ntggggaacg tttcccggta ccggccccgga 60
attccccgggt cgacccacgc gtccggggatc aagacttggg accgcanaaa acgaaatccc 120
atagnagnac aaagnntggc tg 142

<210> 4009

<211> 132

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

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<222> (74)

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3642

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<220>
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<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
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cccacgcgtn cggnttctcc tgtttctcct tntgctcctg accccacgtn cttgctcttg 120
gngcccctat tg 132

<210> 4010
<211> 528
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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3643

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<220>
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<222> (501)
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<220>
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<220>
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acgcgtccgc ntntttattg gagcaatcca aaatagcagc tgnccaacaa tacaggaata 120
cagaagacag tttgaatcac actcattttt tctgaaattt tcaacttcat agaaaggcaa 180
ttgagtttag aatagagagg tatttgtgtc atgatgaata accatgatct catccataaa 240
aagaaggcca tatggtcttt cagacaagaa agaattgtat acctgaaatt aagtacaaag 300

3644

cagtatacaa ataaatagtt gaggggaagaa atcagtgaga gttaaaatag taattataaa 360
gtgggtgagat tgttttcagt ctcatgtgna tactgnttac cattaacacg ggccataaat 420
gnatataaat gttgagtttt agaaagatgt ataatatgta ttattttaca tccttttaac 480
atatgtatat gtttcaagtg ntnanccaat ttatatnggg tgcaanca 528

<210> 4011

<211> 268

<212> DNA

<213> Homo sapiens

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<220>

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<222> (50)

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<220>

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<222> (53)

<223> n equals a,t,g, or c

<220>

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<222> (54)

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<222> (150)

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<220>

3645

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<222> (162)
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<220>
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<220>
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<222> (243)
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<220>
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gccccgaattc aaatcctgta aggatggaag aaacggcctg gagaatattc gggatgagac 120
accacttgta ttttgatcna atcagacctn ttgacctnn anttacaggg caagattctt 180
aatgaaaaaaa gaggttcaga gatgatgana nagacacgat atttggactt tctgtgggcn 240
atnacttgtg aaacgtccat tcnaactg 268

<210> 4012
<211> 340
<212> DNA
<213> Homo sapiens

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<222> (328)
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3646

<220>
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<222> (331)
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<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
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<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
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ttccctcctt taagtgttga ggattttctg tttagtgtt ccttgaccca gtttcaaaca 120
gagccatcct ttacagatta ttttggagtt ttagttgttt taaacctaac tcaacaaccc 180
tttatgtgat tcctgagagc agtatgaggc ctgcaagaaa gtgatcatat aattgtatct 240
tcacttttctt tttatttttg tattacattg ggatgcattg tcatgcataat tttttgtaga 300
ataaattctc ctttgctata aaaaaaanaa natnanatna 340

<210> 4013
<211> 385
<212> DNA
<213> Homo sapiens

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<222> (279)
<223> n equals a,t,g, or c

<220>
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<222> (292)
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<220>
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<220>
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3647

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<220>

<221> misc feature

<222> (375)

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<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<400> 4013

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tagtggacaa cagcaatcaa attatggacc catgaaaggg ggcagttttg gtggaagaag 120
ctcgggcagt ccctatggtg gtggttatgg atctggtggt ggaagtgggt gatatggtag 180
cagaagggttc taaaaacagc agaaaagggc tacagttctt agcaggagag agagcgagga 240
gttgtcagga aagctgcagg ttactttgag acagtcgtnc caaatgcatt anaggaactg 300
taaaaatctg ccacagangg aacgatgatc catantcaga aaagtactgc agcttaaaca 360
ggaaaccctt cttgntcang actgt 385
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<210> 4014

<211> 353

<212> DNA

<213> Homo sapiens

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<220>

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<222> (62)

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<220>

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<222> (73)

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<220>

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3648

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<222> (225)
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<222> (226)
<223> n equals a,t,g, or c

<220>
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<222> (235)
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<220>
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<220>
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<222> (320)
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<220>
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<222> (332)
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<220>
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<400> 4014

3649

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gngaaccgcg ctnacacccc ccccccttt tcaaccacaa cattggcatc atnctaaggc 120
tggtaccct cgtgggtcatg ggatgattgc cagtagcagt tggagccttg tgcattttca 180
tttacatgca ncggaagagt caggctggat tctaggggcc ctgtntaat atganaangc 240
ttttcccagg aatttactgg ttcataatcct taggtctcat tgctctatag taacttagac 300
ctgtcatcct ganccantcn ctggcaaagg gnctagaata acctttaagg cng 353

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<210> 4015

<211> 67

<212> DNA

<213> Homo sapiens

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<220>

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<222> (44)

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<220>

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<222> (59)

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<220>

<221> misc feature

<222> (62)

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<222> (67)

<223> n equals a,t,g, or c

<400> 4015

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gctcaaggtc tctctcttcc ctcccccccc ccccccgatga gannctttta aaaataaana 60
antgtan 67

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<210> 4016

<211> 92

<212> DNA

<213> Homo sapiens

<220>

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3650

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<220>
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ttaactcagt caaccaaag cttctgngt tt 92

<210> 4017
<211> 103
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (33)
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<220>
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<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3651

<222> (86)

<223> n equals a,t,g, or c

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gggaatatan cattgaactg tggtgnttac cttcactatt cgg 103

<210> 4018

<211> 227

<212> DNA

<213> Homo sapiens

<220>

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<222> (22)

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<220>

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<222> (42)

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<222> (56)

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<222> (116)

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<222> (173)

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<222> (177)

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<222> (180)

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<221> misc feature

<222> (186)

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3652

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ccttcctcca ttgttgccct ggaatgtacg ggaccaggg gcagcagcaa gtccangtgc 120
cacaggcatc cctgggacat atgaagctgg gagcaaggaa agggctcttag tcnctgnctn 180
ccgaanttgc ttgaaagcac ttgganaatt gtgcacgtgt catttat 227

<210> 4019
<211> 101
<212> DNA
<213> Homo sapiens

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<220>
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<222> (27)
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<220>
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<222> (34)
<223> n equals a,t,g, or c

<220>
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<222> (45)
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<220>
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<222> (94)
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<220>
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<222> (101)
<223> n equals a,t,g, or c

<400> 4019
ncctaactct atgtgcacct ggagtangat aatnaaaatc ctgantgctc tctttgcctt 60
ggctctgttc tcaatgggtga cgactgccac cacnacatgc n 101

3653

<210> 4020
<211> 107
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (95)
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<220>
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<222> (103)
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<400> 4020
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ttctgctgnc ntctgtggca gagggactcg gaatnatgca ctntaag 107

<210> 4021
<211> 129
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature

3654

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<220>
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<220>
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<222> (31)
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<220>
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<222> (55)
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<220>
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<220>
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<400> 4021
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catgatattct taaagatgga ggcaaaagga tataaattct ataatingact tgagnacttt 120
aancccttgt 129

<210> 4022
<211> 57
<212> DNA
<213> Homo sapiens

<220>
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<222> (33)
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<220>
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3655

<223> n equals a,t,g, or c

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<222> (47)

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<220>

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<222> (51)

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<220>

<221> misc feature

<222> (53)

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<400> 4022

gctcaagggtc tcctccttcc ctcccccccc ccncacgtat tcanagnnggg ngnccttg 57

<210> 4023

<211> 180

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<220>

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<222> (11)

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<222> (14)

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<222> (35)

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<400> 4023

3656

tatntggncac nccngcccgt accgggtccgg aattncggg tgcacccacg cgtccgattt 60
 tgtcctacct gcattctgta aaaattgaaa aaagaacaat tgaatccatc attgggcaga 120
 tgaataaaag gagataagga tgaaattaaa ataaggttct aatcctaaaa aaaaaaaaaa 180

<210> 4024

<211> 347

<212> DNA

<213> Homo sapiens

<400> 4024

gcaaatatta agaaggttta ccactcatag atccttacta aaagagatat tataggatgt 60
 tctttaggaa gaaaaaataa atactggagg aaagagtagg ttaaaaaata acaagaaaac 120
 ataaagtata attcattatt ttcgtataaa aatatttttc ttacaaatgg taaaactaaa 180
 tctctagcca tcaataataa gatgggtgct attttacggg tagtaaaagc atgataaagt 240
 ctttagtaag ttagggaaaa gaccaaatt aggaaatgat tctgtacagt attaaaaaaaa 300
 gacataaata tatatgtcaa agtggttaagg ataactagta aaaaaaa 347

<210> 4025

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

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 tggttgatta ttgttttggt ttcaggcatt tgctgaatag gtgatgatac atgggtattt 120
 ttctgcaagt atttaaacca ggggcataatg caaaggcagt tgtaatttcc tcttgaaaaa 180
 agcgccaaat gtttgaagg taaaatcaaa tgctagggtt gatatttagg cttataacaa 240
 aataggcttg ttttcaaagc agttttttcc tagagtttta actgttaact cactagtttg 300
 ctgctgtttt taactatggt aaataacata tggattttgg caaatagatt tattttttcaa 360
 aatgaaaaan aaaaa 375

<210> 4026

<211> 121

<212> DNA

<213> Homo sapiens

<220>

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<222> (7)

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3657

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<220>
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<222> (18)
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<220>
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<220>
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<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
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<220>
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<222> (113)
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<220>
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<222> (114)
<223> n equals a,t,g, or c

<400> 4026
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cgaggggggg gatgggtgta agacaattgg cccgggggaga aagaggggnct gannaaacgg 120
a 121

<210> 4027
<211> 229
<212> DNA
<213> Homo sapiens

<220>
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<220>

3658

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<220>
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<222> (70)
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<220>
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<222> (162)
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<220>
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<220>
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<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<400> 4027
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tgtagagacn atgctactcg atgacgtgt gagaccggac taaatgggag tggagaacgg 120
gttaggggtgg acgcttgaag atgagcatta tatcacaaca cngtaatgaa acctggtgcc 180
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<210> 4028

3659

<211> 72
<212> DNA
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<220>
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<400> 4028
gttggaatgc gntcggagca cttgctctga ggaanaccat agtgactctg tcgaagaaga 60
atccggnnc an 72

<210> 4029
<211> 595
<212> DNA
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3660

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<222> (590)

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<400> 4029

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agctttttat ataccagca taacttgga acaggtatct gacctattct tatttagtta 120
acacaagtgt gattaatttg atttctttaa ttctttattg aatcttatgt gatatgattt 180
tctggattta cagaacatta ncacatgtac cttgtgctc ccattcaagt gaagttataa 240
tttactactga ggggtttcaa aattcgacta gaagtggaga tatatnattt atttatgcac 300
tgtactggat tttatattgc tgnntaaaaa ttttaagctg gcctcactta ttaaagcaca 360
aaatgtttta cctactcctt atttacgacg caattaaat acatcaatag atttttaggc 420
tgaattaatt tgaaagcaca atttgctgtt ctccaccattc tttcaaggct tttcattgtc 480
aaaggtaata aaaaaggtag gacaattaaa gtgaaaaaaa aaaaaaaagg gcgggccgctc 540
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<212> DNA

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<220>

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3661

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natgatctat gagaggcatc catcctggat ttggaanagc tcaaatcnga agttaccag 119

<210> 4031
<211> 522
<212> DNA
<213> Homo sapiens

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3662

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 gaagaaaaac aggccgagtg aaggtgctgg aaagggaggg aggacgcgag gggaaaggcc 180
 tgtggggagc cacgggcgtc agagagaccc gggaaggaag gctctcgggt gggggagcca 240
 ggagacctgc tctccggcgc agacaggcgg ggcccagcgc tctcctggac gcccccgccc 300
 gcacagctcc cggcgggtgc tctgaggect cactactcga gcccacccag catcccgcgc 360
 gcccttcctt cccgaggaac tcgcctcage ctgatcagge ttccctgggtga gaactganga 420
 gcggactcac ttgatgtttc ctggaagcag agcaaaatgc tcttgctcctt gtcgcgtctt 480
 nattttgccc atgtccccc gtgcancngg ttcnattngg tt 522

<210> 4032
 <211> 352
 <212> DNA
 <213> Homo sapiens

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3663

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cacccctgcc ctctgcagac tgggggttctg tanaccnca aagtaagtcc gccacaccgg 120
aaggaagtga gttacacagg ggcccacatg ggaaccgctt tttgtcctgt cttggtggga 180
aaatggccac gaccccagcc caggctctgc cagccacaaa ctccacgggc atagcctgtg 240
aggccgcagc gtgaactgtg actagggctg aggatgggtgc catggtaaaa gtganggcct 300
ggcaccnngt caantgcatg aattcttngn agtgggggttg ggaaaaaacac ct 352

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<212> DNA
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<220>
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3664

<222> (66)
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<220>
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<220>
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tggggagccc gg 132

<210> 4034
<211> 275
<212> DNA
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3665

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agacaagcca ttacataca gatattnaca gtcacacata gaaacaccca catggacaca 180
aggaatgttg ctgcanagac tgaatgacat gcaacangtg aaggnttata cggatatacac 240
aangccaggt aagcgctcat aaatcacana caata 275

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<210> 4035

<211> 243

<212> DNA

<213> Homo sapiens

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3666

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cggaattccc gggtcgaccc acgcgttcgc ttattgattc cagacccatt tcagcagact 120

3667

gtgacacttc agcgacctgc aaattctaca cattagagtn catattttat acaaactncg 180
tacacctaag atgtggactn aacatttcta cnaacaacat ccaacttcaa caaaagatgc 240
ang 243

<210> 4036

<211> 251

<212> DNA

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<222> (245)

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3668

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aaaactacat gtttgtgaat attttataat gtggaatgat cattgaaata ttnaggattn 180
tangtaattg tatttcctga ataaacgtat gttcatgaat tttctaactt acatcttgta 240
gtgnnctctg c 251

<210> 4037

<211> 175

<212> DNA

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3669

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cggggtcgacc caccgcttcc gcgaccgacc ttcagcaggg ntgaggntac catgtttctct 120
cgcgcgggta gncactgggc atgncnagtc tggacctttg cagagcgcaa atgga 175

<210> 4038
<211> 293
<212> DNA
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3670

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 gcattatttt ctccatttta taatttttac agggggaaca gcgaagccag atgatttatt 120
 agttattgcc ggtganaata caganatcct ttgaaacatt tgtctctnct agaattctca 180
 tcanaccata tgcttctaac acagcactta acagtcattg ggagtatgtg ggantaacan 240
 atactcgnnt ccttgccana accacacata caccacaca cttgaaanaa aaa 293

<210> 4039
 <211> 87
 <212> DNA
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<220>

3671

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<220>
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<222> (82)
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<220>
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<222> (86)
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gagggaactc gtgccttata nnattna 87

<210> 4040
<211> 59
<212> DNA
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<220>
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3672

<210> 4041
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<212> DNA
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aaacnttaat taagggggcg ggaaaaaggc cctgggggggt gaac 104

<210> 4042
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<212> DNA
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3673

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 tggaatgtgc ctgggatttg ggtctaagtg tatgcgtaat tcttacctca ctaaagaatt 120
 tgccttgttt ttttcctttt ggtgagtgac taaaacgtct gggcttcctt gtgtgcgtgc 180
 tacagtaagc aagcagaggc tgtgcaaagg tgtgagcagg atcacgtgga atctggagga 240
 tacatcttgg cttgcaaact gcctctgtct cctgngtggg actgttctgt ccttgcactg 300
 ctgnnctgtg gttacctctt ggggtgtaag gttttgctta canggaacat actttgggcg 360
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<210> 4043
 <211> 112
 <212> DNA
 <213> Homo sapiens

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3674

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<222> (92)
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cctggaaatt gaatgggnacg gaccctgatg antttcatta tgattgggca cg 112

<210> 4044
<211> 55
<212> DNA
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<400> 4044
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<210> 4045
<211> 374
<212> DNA
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3675

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3676

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gaaaaatgta aaacttagtt gcaaacagta taganaataa gtgatgatga aatatttgtt 180
ttcatacaaa catgctttcc cattctaaat agatgctann tttctttttt ccttggctgt 240
aaataaaaagt gccccaaatg anaaacnaan naaaagggcg gncgctctan aggatccaag 300
cttacgtacg cngtgcacgc nacgtcatag ctcttctata ggtgtccacc taaattcaat 360
tcactgggcc gntc 374

<210> 4046
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<400> 4046

3677

gggggaagtt ggaaaaaaat gntattttta aattatggng cccntaaca tng

53

<210> 4047

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 4047

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gganaatttc acattaatat ttgotgacag ctgaccttg tcatctttct tctattttat 60
tccctttcac aaaattttat tcctatatag tttattgaca ataatttcag gttttgtaaa 120
gatgccgggt tttatatattt tatagacaaa taataagcaa agggagcact gggttgactt 180
tcaggtaacta aatacctcaa cctatggtat aatggttgac tgggtttctc tgtatagtac 240
tgncatggta cggagatggt tcacgaagtt tgttcacag actcctgtgc aactttccca 300
atgtggccta aaaatgcaac ttntttttat tttcttttgt aaatgtttag gtttttttgt 360
atagtaaaag tgataatttc tggaattaga aaanantcga ncn 403

```

3678

<210> 4048
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<400> 4048
gntctgntgg aaagggccag gcactcagaa gtatcccatg cttgaaattc ttaattttat 60
ctttgaattt gtgtttttta agtgaagtcc aatgggacag gttctcagtt gccctggccc 120
actcgagctg ccctggggct tctccctacc ctccctgata ccactcttgc ccaggcagcg 180
ttgggattgc accctccgaa tctcagggca ggggtggtgg taccacagca cattaggcag 240
gcaagtgggc aggggcctct cacctgtccc atccctgcag ggaagttgca atccattagg 300

3679

```

gctgtagtaa cgggggagtct gacttctgtg ctctgctcca ggccgggaat tttgcactgg 360
gccttgtaaa tcatgtanat ggcacagggt gatgagtacc attattatcc ctattttata 420
aagagagtat taaagagaag taacttnacc aactgcaaaa atgtctatac atatatccca 480
natggattta aaaaactang cccggccatg ggtngnctca aacctggaaa tccca      535

```

<210> 4049

<211> 123

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<400> 4049

```

cgncncaccg ggccgggaatt cccgggtcga cccacgcgnc cggaaaaaaaaa aaacattctg 60
cgaatgaaat atngnatggg gagagggttat aaaagacatt ngnaaaagcc caatttacag 120
ccg                                          123

```

<210> 4050

3680

<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<400> 4050
gaaatgcttt ctaactgggc ccccaactcc gcaccccagt tcgcagtgag gccctgggtg 60
ggtcacctgc cctctctgga cttgtttctt caactggagg aggtccctgc ctatgctgac 120
attccattgt agaaaaatgg ggcctctggt gtctctttac caggggcaag tgcctctctg 180
cgggggagga aaagctnaag gttanctgtc ttaacccaan tgacttacca ggcctacnaa 240
atgagtcant tc 252

<210> 4051
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

3681

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 4051
gcacaaaact gatttttaaaa tcaagttaat gtgaattttg aaaattacta cttaatccta 60
attcacacaata acaatggcat taagggtttga cttgagttgg ntcttagtat tattnatggt 120
anataggctn ttaccacttg caaataactg gccacatcat taatgactga cttcccagta 180
aggctctcta aggggtaagt ctgangatcc acangatttg agatgctaag gcccacanaga 240
tcgttnngatc caaccctctt attttcagag gggaaaatgg gg 282

<210> 4052
<211> 143
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

3682

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<400> 4052
gatgccact cactttaggg aaagctngta cgctgcagg taccgggccg gaattcccg 60
gtttgaccca cgntttcggc aaagcaaccc cctgcttatn cacgnggaca ccaaggcgg 120
ccacgngcg gggaagcca cag 143

<210> 4053
<211> 131
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

3683

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<400> 4053
accactact atttggaag ctggcccgcc tgcaggtacc ggcccggaat tccccgggtcg 60
accacgcgt ttgctgagat gagggctctta gcctacaggg ntttttgaaa tgaaaggagc 120
tnagntannt a 131

<210> 4054
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<400> 4054

3684

```

gcaacttaga agaaatcatt tagtgactta attctttcta aagatgaaat gggattgttt 60
tttactcgtc ttccttggtta aatcattatt taagccggtc ttattgacca attcctgaca 120
cttgattgtc tcctaattgct ttatccatca ccacctgggc tctgcatcc tcactgtgga 180
atcaggcacc agccacataa tgttccagac aaagcctgga aggggtgtgga cccagacgtg 240
gagtggagtg attctcttga cgtttacata tatctctgtg tctctccatc attccaaagc 300
taaatgtaca tgtttagaat aacttatttt ataaactctt cgggagacat gttgagattt 360
gaccgtaatg aangcccatt ttctgaaaa aaanaannnt 400

```

<210> 4055

<211> 156

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

3685

<223> n equals a,t,g, or c

<400> 4055

```
ggccnaccaa ccggttttgg ttggcncggc cgggcttggt ggggcctctt aaaggngccc 60
ttaacccaac cccttttcaa ngaaaagttc naaccctggt ggggcnaana tggttggggc 120
ttacccttg gccnaatgcc gccaatgaag aaaagg 156
```

<210> 4056

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 4056

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gggacctgga gcccaccccg ggagccttgg acgctgtgcg ggagatgaac gacctaccgg 60
agtaaggaga gagggggggc ggcgaggtcc tgggcgggct cctggctccc ggcggtaacc 120
gcgtccttct cgcagcacg caggtcttca tctgcaccag cccctgctg aagtaccacc 180
```

3686

```

actgtgtggg tgagaagtac cgctgggtgg agcagcacct ggggccccag ttcgtanaac 240
gaattatcct gacaagggac aagacngtgg tcttggggga cctgctcatt gatgacaang 300
acacagttna aggccangag gatgacccca agctgggagc acatcttggt tacctgctgn 360
cacaatcggn acct 374

```

<210> 4057

<211> 193

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<400> 4057

```

ggacgcgtgg gcggccgtga agtagcgttg gatgcgtgtg cctgtgtgtg tctgggggtgg 60
gggtgagggg gcgcgggggc cgcgtgctcn agtagaaggg gccggagggc ggngagcggt 120
tcggcgtggt catcctggac cctgggggct ggcngggcgg cgtgtgcngt ctnggagggg 180
ccgaggcggt gga 193

```

<210> 4058

<211> 345

<212> DNA

<213> Homo sapiens

3687

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>

3688

<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<400> 4058
gatttctgga atggatttaa taggctgtgt ctaatgtaca aactgggtga gtcctgcctt 60
antgtgtcct gccccaccgg tacgcttcca ggatactntt ttccctctg taaagatcac 120
tttcttctga tggccagtgt nantatgatg tcagtnaggt ctggggatga tgacagtggg 180
tnctgaaatt cacaggactg actcctcacc ccagtgcacg angattnctg tggcangacg 240
gtgctgtgtg acctggngta ggancctaat catngaacca tcnctgtgta cctcacatct 300
ctatgtctaca gaacatatca tgtctcaaga aggatttggt ggang 345

<210> 4059
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

3689

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 4059
gggtgagtatt aaatatattca gaagtgtgaa ttatcatgtat ttgagctcct ctagtgtgctg 60
tcgggttttttc ttctgctgcc aacctgtgac tcacaaatga ctaggatctc ttgttcttta 120
atatttaggggt cttgttccag gactcaaadc agtaacttgg tgattacaag gtgctgaatg 180
tggttggtaac catatcgcaa tacacctcaa ggaaaagggt cagattttta tttttaaaat 240
atatttcattt ttttcttgaa ttntatatcc gtttgttcac tcgtacatgc ctagecctaca 300
naaggggata tatattatga aatgggcatt tttctgaaga gaatatatttg cttgaaatgc 360
naaggactga aagagatttg tangttnngt gattttg 397

<210> 4060
<211> 193
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>

3690

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<400> 4060

```
ttcgggctgcc tgtacacctg ctgcctacat cttcttggca acaaagttac ctgccacagg 60
ctctgctgan cctatgtcct ggtcagtaat aactgaacag ttgcattctt ggctttggat 120
gctgtctgcg gacaatcttg ctgaggatct ctaccatatt ctgagcacac ggtntntttt 180
gntctaactt nan 193
```

<210> 4061

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

3691

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<400> 4061

```
gattggcaca tgggtggaca cggatctgct gggctctgcc ttaaacacac attgcagctt 60
caacttttct ctttagtggt ctgtttgaaa ctaatactta ccgagtcaga ctttgtgttc 120
atttcatttc agggctcttg ctgcctgtgg gcttncccag gtggcctgta ggtgngcaaa 180
gggaagtaac anacacacga tgttgtcaag gatgggtttg ggactagagg ctcagttggt 240
gggagagatc cctgnagaac ccaccnacca naacgtgggt tgnctgaggc tgnactgag 300
agaaagattc tggggc                                     316
```

<210> 4062

<211> 103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<400> 4062

```
gggaaaaaag ggccttgggg tttatccgtc tccttggcca aggggggttaa tcnccngngt 60
tctcnggggg aaaatatctc ncnccggggg ggttctgtat ctc                               103
```

<210> 4063

<211> 158

<212> DNA

<213> Homo sapiens

3692

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 4063
aatggcaaca cacaggaact ttgattagga aaacttgggc caggcacagg cagaagtcac 60
ttttcattca tccttgccaa cgtgtganct tcagaagant ggaaatgatg gactatcaac 120
accttcngcc tacgactcaa ataanaantt gatgactt 158

<210> 4064
<211> 74
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>

3693

<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<400> 4064
ttttgggaaa aagcccccn ntttttgggg ggaaaaaaat cccnggaac ttgcaaact 60
ganttttttg nggg 74

<210> 4065
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<400> 4065
gctagaggag tttgtatcaa tttgtgagta ttaatgtcan gtntaccag cactttgcc 60
aaactgtcan agggaccgt ttctanagtg agtccantt acat 104

<210> 4066
<211> 70
<212> DNA
<213> Homo sapiens

3694

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<400> 4066
gctcaaggtc tctctcttcc ctcccccccc ccccccgta tatcttttnt tngttttttt 60
aaanttagga 70

<210> 4067
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<400> 4067
gcggtttctg gntccgacgg tagtgggtag nggntctcgg gttgcggggtt gca 53

<210> 4068
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)

3695

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

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<220>

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<222> (42)

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<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<400> 4068

ccngtgaaat tanngctntt ggggacatga aatatatgga gngataaatt atagaacaca 60
gtattccaag aataaagtac tcttgagggt ccttcctgat tcaccctggg gtacacacag 120
gtgcatactc cctgcctctc acccatccag agaaaacnct ttgcantgac tcangtccaa 180

3696

nagcactgct cttgggtgga an

202

<210> 4069

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 4069

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ggtttatgga tttttaaaag tctcattage aatgatttct gagtttttaa caatttggtgt 60
gtatgaatga acttccggca tttgggaaac ttaatctgct ccatggatat aattgtaatt 120
gttttacatg ggaatttaat acaaacctaa caatcaaata cctctcatta aattttacat 180
tcattcacta taaatggact agatttttaa actcagaaac ctaaaaataa gatgaagtta 240
gacaacttta gattttgtgt ggtgtgtaca tctatgtgca cagnatgtaa attatctttt 300
attggattgc ttaatagaat aaanaagtan aaatttaatt cctgngng 348

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<210> 4070

<211> 115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

3697

<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<400> 4070
agagnccaaa aaggccacgg gataaacgga caccgcacaa gagataaaca cagagatata 60
cagggaaaaa natanacaca gagagatata gaacncncaa ccggcagata nacag 115

<210> 4071
<211> 52
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)

3698

<223> n equals a,t,g, or c

<400> 4071

gatggaagta atttagattt ggaanantca tacataaaat gattntagtn ca

52

<210> 4072

<211> 89

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 4072

gctcttctctc tcaggcgggc agggcttggg cagcggcctg agtctcagcg gacttgncga 60

ccctcgagtt gaatcggntt gnngagcng

89

<210> 4073

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3699

<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<400> 4073
gcaggtaccg gtccggaatt cccgggtnga cccacgcgtc cgnaaaagct tgcagctggt 60
gcgggngtga gtntgtntg ttgatgacca atggggaaaa 100

<210> 4074
<211> 52
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

3700

<400> 4074

gggtgttgctt ttacggncan agctgactnt gttgaggntg angttaaaag tg

52

<210> 4075

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3701

<222> (234)

<223> n equals a,t,g, or c

<400> 4075

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cctacaaacn ccatggtaat ncnactacaa cagggaaagc tggtagcct gcaggtagcg 60
gtccggaatt cccgggtcga cccacgcgtc cgctcccca atgcaggcca cttctcctcc 120
ctcctctcta aatgtantcc cctctcctcc atctaaaggc aacattcctt acccattant 180
ctnagaaatt gtcttaagca acagccccaa ntgctggctg cccccaacca agcnttgggg 240
ccgccatcct gcctgg                                     256
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<210> 4076

<211> 171

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

3702

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<400> 4076

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cttcaggagg aagcacattt aaatcatctt tcaagcactn tatttttttn gtncannaat 60
tcaaccttat tgatagaaga gaacttgcac cactccaaga actgattgaa aaactcacnt 120
canaagacag ataaaaggat gcanagcttn tgcaaattgg tctnaaatg a 171
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<210> 4077

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3703

<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)
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<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<400> 4077
ggtcagncaa nngagtcaag atttaagttt acaagaggct gaaactgagc aatcagatac 60
tttagataat aaagaagctg tcatcctaan ggaaaaacct ccatctggac gccagacacc 120
gcagccttta aggcatacant cttacatctt ggcagtaaat gaccaggana ccangtcaga 180
cactacctgc tggctgncca atgatgcacg tcagagggtcc acataataag aatggaggaa 240
agaaaagcct cgagtccaat cccgctggcg antctttgnc ttncatccca tttatagagt 300
cctctgatgn ccagnctgga gtgcaattgg c 331

<210> 4078
<211> 152
<212> DNA
<213> Homo sapiens

3704

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<400> 4078

3705

aggganaagn tggnacgccn gcaggtaccg gtccggaatt ccnggggtcga cccacgcgtc 60
cggaggagcc gggctgatgc ggggctgctc agggcaggcc cnagggcgag ctngccatng 120
aggccaggca gcctncacct gtgctncagt gg 152

<210> 4079
<211> 166
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
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<222> (163)
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<220>
<221> misc feature

3706

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<400> 4079

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gatgnccant tgggncngaa ttccnggggtc gacccacgcg tccggtactc cctaaatttt 60
ttaaaataca tataaatgct tgacattatt atacatgtaa gtggaataga aatagaaaca 120
gaaaataaat gcttcaaggt gttttacacc ntgaaaaaan aantnn 166
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<210> 4080

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<400> 4080

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ccgtaccggt ccggaattcc cgggtcgacc cagcggtccg ggatatctng ggggccatta 60
gncagcctgc tatnaccatc agtcagcngg atntaatcaa 100
```

<210> 4081

<211> 136

<212> DNA

<213> Homo sapiens

3707

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
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<222> (73)
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<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<400> 4081
tgactgnaat gaaaagaacg nggccttttt gcaacgcttg aacctgagat caaggntgtc 60
attgagcanc ttnaacctgg gcaccaccct gggttgcaac ttgcaaaaaa ccttcggatt 120
tggggggatgg gnnacc 136

<210> 4082
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

3708

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
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<220>
<221> misc feature
<222> (155)
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<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>

3709

<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<400> 4082
ggancttgta ctggnnggtc tccctgcncg tactcggncg ggaattcccg ggtecgaccca 60
cgcgtccgaa gaagcgaaat tttattctgg atcagacaaa tgtgtctgct tgcttgccca 120
gaaggagaaa aatgngcctg tnttcaggct ttcnncgaa aacttggttg aagttggcca 180
aaagatgaag actattgcna aagacccagn ataaacntaa ttnaagggaag agactaccan 240
acatgcggtc ttaaaatgaa aggaactttc ctccaaa 277

<210> 4083
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

3710

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<400> 4083
ggncgnggaa cttctaacgg gaanactcct ataggggaant ctggtacgcc tgccngtacc 60
ggtccggaat tcccgggtcg acccacgcgt cgcgaaatta ttagtgtata actctgaatt 120
gaatttagat ctctttgatt ccaaggcttg ggatcttaca tgccccttta ttaggtagga 180
atagatactt catgaagatg ataacatgcc atctacagaa tatgatattg cattgatgtg 240
acactttacc tacaaaatat cttatttctg agtcttccgc aagagaaaaa gcaattttat 300
ttttatggga caagattgga tgntacattt ttaatcaatt acatgnaagt gtattctacc 360
tttaaaattg ctatggaaaa gttaattat ttccaacagg anttatnact atcan 415

<210> 4084
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3711

<222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (28)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (43)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (289)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (291)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (296)
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<220>
 <221> misc feature
 <222> (298)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<400> 4084
 tcaacnggca cggtcccnng tttaganact ggccccgctg cangtaccgg tccggaattc 60
 ccgggtcgac ccacgcgtcc ggccccgcag ctccctccggg agcccgcctgg taactcgcgt 120
 ccctcgcgct tctccggcgc ctgagggggcc cgcctcgggc catggtgctc tcccaggagg 180
 agccggactc cgcgcggggc acgagcgagg cgcagccgct cggccccgcg cccacggggg 240
 ccgctccgcc gcccgggccc ggaccctcgg acagccccga ggcggctgnc nagaangngg 300
 ang 303

<210> 4085
 <211> 122
 <212> DNA
 <213> Homo sapiens

3712

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 4085
gnaaagttct tatgntagta tacatataaa tatcagtggt ctgacatgta agaaaatgnt 60
acggtatcac acttatattt tatgaacatt gnactgggtgc tntaatatga gcttnantat 120
aa 122

<210> 4086
<211> 148
<212> DNA
<213> Homo sapiens

<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>

3713

<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<400> 4086
catgcagaga atatnctgaa gaantnaage gtgactgctg gcgaactgtg acacgggtga 60
gctcgatcac atcnctctca tacatcattc attnaagcat ttcttttagcc cacggatcca 120
gacccaantg cnttgtatgt gnagatac 148

<210> 4087
<211> 177
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3714

<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
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<222> (160)
<223> n equals a,t,g, or c

<400> 4087
cggcccgga ttcccggtc gacccacgcg tncggtagga gtcaatgatn acatcctagt 60
nttaacaagn tacagataat cgctgactgg catgtngtct gcttctagct tggagctaaa 120
tgctgctcat gctgaaaaga ataatgncta tntctttggn tgggtattag ctctatt 177

<210> 4088
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)

3715

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<400> 4088

tcactatatn tgagggcang gncncctgca ggtaccgggc cggaattccc gggtcgaccc 60
acgcgtccgg anttaggtct attaggataa ttaggagttt gancccatca acactattct 120
tgtagcagtt aggaatcttg agctatTTTT ttctcatacg attactatag tccagtttac 180

3716

caaagttttc tttagatgtc tgataatctt gagatgattg cttaccttaa aaggtataga 240
aaggatcact taaatatatg gaaaaatgaa ataagggtga agctgaataa agnnctactt 300
actgnattaa aaaaaan 317

<210> 4089

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

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<220>

<221> misc feature

3717

<222> (510)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (519)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<400> 4089
 nagttcactg aaaactttta ctatatattga gcgctgggtnc cctgcaggta ccggtccgga 60
 attccccgggt cgacccacgc gtccgatgggt gtcatttttc ctgcagagaa atttaattctt 120
 tcaactttaat ctttcattgg cctatagcag ccagtggggt cttttaaaaa attcttttcc 180
 ttcatatcc ccgtttgagc ttaaggtaca aaaaaagaaa atactcttga aatgctgtga 240
 ccagatctag actgtaacat gccccttcgc tcctctgggtg aggaagtgcg ggaaggtgga 300
 agacattgag gggttgatta tttactnctg ttggaagtaa gaagggaggt agctcttatt 360
 tggaataaga gctgncttca gaacaggtgt gngctctcct gaagcccaga gctgngactc 420
 cctgggtgtg tctcttacct gtgcccttgg gcaagtggca cgggagaaga atacgannag 480
 aggaggatgg tacagacaga ggagtcacan gctgaacang ctgtcaccgg ggcaagatga 540
 ctgacang 548

<210> 4090
 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (43)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c

<400> 4090

3718

gctcaagggtc tctctcttcc ctcccccccc ccccccgta ttnanntgnc c

51

<210> 4091

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 4091

gattntcgcc	agggccaata	cttatccgca	ggggtgtgtg	ccaggcagcc	caggtcagcc	60
tccctccacc	gggccacccg	caccagggtg	cctcccatcg	tttgcaggag	cggaagaccc	120
gatggagcag	gtttcacagt	gccctcgctg	ctgcctcccg	tttcatctgc	acgtctcttt	180
caatgcgggc	gtgcgaactt	ccaggtagag	ccgagttcaa	gaaaatgaag	tactgcatgc	240
gacgagcaag	tttattgaag	agggtgtgag	gtcgcggcgc	ctgacctca	ttatgtcaag	300
ttactactaa	atgaaattag	aacttcactg	ncctttttct	ttttcccatc	gagggtgcaag	360
aggaattgan	cttanggtag	nattttggga	tttaaaaaaa	an		402

<210> 4092

<211> 214

<212> DNA

<213> Homo sapiens

3719

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<400> 4092
gnctggttca caggggaatct agttactata ttgaangctg gtacccctgc aggtaccggt 60
ccggaattcc cgggtcgacc cagcggtccg aangactaca gagccccgaa ttaataccaa 120
tagaaggggc aatggctttt aaaataaaaa tgaaagggga attaaaacag cttaaangtt 180
aanttaaaaa gtggnagggg aataaaanaa nttg 214

<210> 4093
<211> 98
<212> DNA
<213> Homo sapiens

3720

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 4093
agaggggatnc tggaaaccct ttcgggantn aaggccaggt acccctgcag gtacncggtc 60
cggaattcnc gggtcgaccc acgcgttcgc taatccag 98

<210> 4094
<211> 146
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3721

<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<400> 4094
agacanaagt ggaattncgg aactacattg aaagcnggta cccctgcagg taccgggtccg 60
gaattcccgg gtcgaccac gcgtccggtg gcatggggga aaatcgagtg ggnccaggng 120
ggcaancgaa gcaaggcntt ggcgtc 146

<210> 4095
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)

3722

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 4095

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tgtatctttg taataaaaaa gatctttata aacaatatat gaatgtgccg ncttatttat 60
tgattactgt aaattaagat ataaatggct atttgaataa tttataacctg tgggaattaa 120
ctggagtatt tgttatttga ctgttttcta ttaaggaata ttaggcttgg tgctatgatg 180
aatgatcttg taaaatcatg tgtattctta agaaaatttt tgaatataaa tttcttgaac 240
tgacaaaaaa caaaaaanna atntataaaa tnanaaaat 279
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<210> 4096

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3723

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<400> 4096

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cgatatat ttt aaactttccc tctatattat aggttttgtg gcatncacgg tcaggtgtag 60
aggaagctgg ccccttgcag aactgtactg aaaaattttt aataaatatt ttcacaggac 120
tgaattgacc acaggggctt gtaataaaaa ttttnacact ggagctggga aaaccaanct 180
attgggggga aatcntccaa tttggaaagg nctacctttc atggggccac cctggaaaaan 240
ntgggaagtg ggttaatnag cctaattgaa ctttttctta a 281
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<210> 4097

<211> 222

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<400> 4097

3724

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gcgaccatct caatgtcacc aagaaatggt cctaatactg agtcgtcacc cttggatttt 60
atggatcacg gagctgacca tctttacctg gtcctggaac tgaaaaactg tagcttgtgt 120
gaaaatgagc ctttgacca gtctttatta aaacaaacaa acatgaaaaa naaaaaaaaa 180
natctaanaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aa 222
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<210> 4098

<211> 235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<400> 4098

3725

cgaatagacn tctntggaac gcctactata gggatgctgg tacgcctgca ggtaccggtc 60
cggaattccc gggtcgaccc acgcgtccgc ggacgcgtgg gagaatatgg gataagtagt 120
cangatcaga aagggtgagac aataaaaaaca agatatattc caaagcctaa tcttaaattc 180
tgnttcaaatt tctttatcat atttcaagnn ctttctcata ctncantgat cttagg 235

<210> 4099

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 4099

gaaaaaaaana agagatagaa taaaaggggtg aagacagaaa aancaagagn aanatgaatg 60
taatnt 66

<210> 4100

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3726

<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<400> 4100
gcaagcataa ggcaataaat acctgcagca acgtgggaga aagaagttgc tggaccagga 60
gaaaaggcag ttatgaagcc aattcatttt gaaggaagca caatttccac cttatttttt 120
gaactttggc agtttcaatg tctgtctctg ttgcttcggg gcataagctg atcacctgt 180
agttgggaaa gtaaccctac agggtttgta gggacatgat cagcatcctg atttgaaccc 240
tgaaatgttg tgtanacacc ctctttgggt ccaatgaggt agttgggttg aantagcaag 300
atgttggnct tttctggatt tttttgccat gggttcttna cttgaccttg gacttttggc 360
atgattctta gtcatacttt gaacttggct cattccactn tttntcagag caactcttcc 420

3727

tttgggaaaa gagttnttca natcatanac cata

454

<210> 4101

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 4101

gcccattacc atcttncatg agctganatc ccttcaaaat caagaggggg cgatgcntgg 60
cagcta 66

<210> 4102

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

3728

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (68)
 <223> n equals a,t,g, or c

<400> 4102
 ggatcatcac ctgtaaagca gagctatatt aagccaagnn ncaggaagca gtagaangct 60
 aatcttgn 68

<210> 4103
 <211> 349
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (54)
 <223> n equals a,t,g, or c

<400> 4103
 ggcctgaagc acattgtcaa agatgaaagc tcttttgggg aaaagggctc tccngtggaa 60
 tcatcccttg tcatagcatg tggctctaaa ttttcagcct cattcacagt agcttgcat 120
 gttgtattgc ttttgggaca cctgtgtttt atctggaaat gtagacagga atagcggttt 180
 tttttgtatg tgtattatat attgtttcac tgctaattctt ctacacaatt ttttagaata 240
 aaaaagggtg aatagcttgt gccattttgc taattacata gatttgactt ttgatcacat 300
 aaataaaaaa taaaacaagg caggacattg tcctgcacat agttgaaaa 349

<210> 4104
 <211> 227
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (43)
 <223> n equals a,t,g, or c

3729

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
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<222> (121)
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<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

3730

<400> 4104

gaacgctggt acgccngcng ggaccggtcc ggaattcccg ggncgaccca cgcgtccgat 60
cgaangcgcc gntgagacct cagccttgac ctccctcaga cgnggccggg accctgagcc 120
nctgcncaaa gccacccgcc ccgacgtact taggcggnat agccctgaga cctctggnca 180
gcgccaggca ngcancgggg gcgaaagagg cctgggnctg agacttc 227

<210> 4105

<211> 147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

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<220>

<221> misc feature

<222> (13)

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<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

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<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

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<220>

<221> misc feature

<222> (127)

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<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

3731

<220>
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<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<400> 4105
ctncagggcc cangttcgag accnaaaccc ccagggnagcc aaaacntctc ttgaaaagca 60
cagggaccga ccagggggaga tggggaggag atatggagtg agacacctgc tccagaagaa 120
gccagcnttc tctanncagg gngcnaa 147

<210> 4106
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
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<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
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<220>

3732

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<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
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<220>
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<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<400> 4106
cgcccnagac cnncgtttgg aacgacctac tatagggaan gcnggtacgc ctgcaggtac 60
cggtccggaa ttcccggtgc gacccacgcg tccgaaaagt agccctcttt ctcttgatc 120
ttgctgaggg agnggctngg ggggtggggg agataaaaaa gaacttaaaa tgggnaaagn 180
aagaaatgnt 190

<210> 4107
<211> 625
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (10)
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<220>
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<220>
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<220>

3733

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<220>
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<222> (425)
<223> n equals a,t,g, or c

<220>
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<222> (504)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (546)
<223> n equals a,t,g, or c

<220>
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<222> (609)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (622)
<223> n equals a,t,g, or c

<400> 4107
ctgtnagctn tcgncatatag ttttgngetn gtaccctgc aggtaccggt ccggaattcc 60

3734

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cggggtcgacc caccgcgtccg gtctacaacc acgtaatatc cttttcatca gccttatgaa 120
attttccccc aatttatcca agtcaggatt tcagtatgca gaagtctaata gtcattcttg 180
agagttcatt gtgcctcccc catatccaag accatttact aaaaccttag ntcagtcttt 240
aaagagtcac aagatcctat tatgcctagt tttttttcca gtcttttaag tctattcctt 300
accttgccaa aaaagtacct gtttctatgg ttttaacaaat ggagcttana atatggaact 360
atgacaaaaa tacctgctac atgcttcctt ctgtatgaat acatgagacc taccttcatt 420
catgnttcct ctatgaagct ttccctgcac tccaaacaca gagctgagac ttccacctaa 480
tgtagaaagc tagcacgagc cggngctgac agatggaaga cttgagatgg tacaagatta 540
tntatnggaa acacaaaagg gagatacccg gagccatgac agactgggat ggggctgggg 600
ggacaggtna agcaagacnt tnata 625
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<210> 4108

<211> 64

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<400> 4108

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ggttctagat cgcgagtggc cgcccttttt ttttgggntt ttttttctt nancataaaa 60
cgnn 64
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<210> 4109

<211> 56

<212> DNA

<213> Homo sapiens

<220>

3735

<221> misc feature
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<220>
<221> misc feature
<222> (39)
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<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<400> 4109
gctcaaggtc tcctccttcc ctcccccccc ccnccggna tggtttnnngng atataa 56

<210> 4110
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

3736

<220>
<221> misc feature
<222> (430)
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<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
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<222> (498)
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<400> 4110
gtgttagaag gacccaaggg gaatgggttg aaggcatgtc atagaaggag aagataaaga 60
aagcccagat gatttttgcc tgtagaagag gagggctgat gggattcaac tgcctaagtt 120
tgtatctaaa tcttgtttta tggaattgag gttacatttt gtttgtatgg ctcttaagaa 180
cagaattcag atttctgcct ttgaaaaagg ggaaaccctt taccaattan gattattaaa 240
aaatggaatt tctctgcatt ttgagatagt aaactctaca ttgaagtatt ctgctacttg 300
ttanaaatTT tgntcaaaac ttaagcatt aaatggggaa ttggtctgga tgactgttaa 360
gatccccaag agaatccaaa tttttgatct tagctgcaat taaagatgtt tataaatgct 420
taacanctgn tctacctact tccttattct tangatgtat tactattnca tatttaaacg 480
atcactcaag gaccattnaa tc 502

<210> 4111
<211> 139
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
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<220>
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3737

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 4111
gctcaaggtc tctctcttcc cteccccccc tcccccgctct gggettnact tcctttcnta 60
cttggattct nctgctagct gcctcccatn atcttttttg gaggcccgtc tcttgctgtg 120
gggaagantg ggctggctg 139

<210> 4112
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
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<220>
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<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
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3738

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<220>
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<220>
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 <222> (217)
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<220>
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 <222> (329)
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<220>
 <221> misc feature
 <222> (331)
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<220>
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 <222> (369)
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<220>
 <221> misc feature
 <222> (373)
 <223> n equals a,t,g, or c

<220>
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 <222> (376)
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 gtaaccttag tangatagaa cttcatntgg nagggccagc tggtagcct gcaggtaccg 60
 gtccggaatt cccgggtcga cccacgcgtc cgtttgaatt tttgagttat caatgtactg 120
 aagtctcttt ntaatnttat ngggtgggtc agtgnggtca gngccttgag tgtttcaaga 180
 tctctattct ggatttttagt ttagctttta ttgactntct aggttggtgc cattgcctga 240
 aatacatgac agtgagctca cagaaacctt atactttgaa tttcacaaaa atcatataat 300
 gttaggttct tgcttgcttt ccctttatnt nttttactgt caataaaata ctgatcctga 360
 aaaaaaana aanaana 377

<210> 4113
 <211> 530

3739

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
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<222> (398)
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<220>
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<222> (447)
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<220>
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<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

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cgattaactg ccnatcatca cctcatttgc tttttttgac aacatactac tagaaaccta 60
ggctgtgagt gtaaaaccat aactgttaga atcatttttt tggcaatagc tcacattctg 120

3740

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ttaagagtca ttgcttttaa tcaaagatca tgatttatta tatatttttt ataagtaggg 180
atggggccaa gattattcct ttggcacagc agtaagtgtg ctcaagatct ttgcctgtaa 240
gcttgaatat ttggcttaaa ttttgtgcat atgaatactg ntaaaggat atttgactac 300
attttgaaag gaaaaaggta gtcctgctaa aattgacatt tagggatatt ttaatctatg 360
tatttggtaa aggtaattag tgaangtatt aagttatnaa aattttaagg gaaaacattt 420
aaaaagcaaa atagtccgta tcagatnaat agaggtagaa taccactnna gattaaacaa 480
ggcncctggta ncaatgaagg ttgtcttggt cagacgactg agatatttaa 530
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<210> 4114

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<400> 4114

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ggaaaagaga aagagaaaag gaattaattc aatcctggca gaantgattt atatnctgat 60
tngancna 68
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<210> 4115

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

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3741

<220>
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<220>
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<222> (73)
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<220>
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<220>
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<222> (87)
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<220>
<221> misc feature
<222> (142)
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<220>
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<222> (155)
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<220>
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<222> (167)
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<220>
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<220>
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<222> (193)
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cgcggtggggt accggtncgg aatggccggg aagaccang cgtacgaaaa aaattatctg 60
ggttaataag ganatntata aaaggcncaa gaatctgagg actagatgtc ataaatatga 120
aataggtaaa aacaagggtca cnagaaaatg ggtanttaag aacttanctg gtgnggtaag 180
aagcatcacg aantggaaag gtaagaactt g 211

3742

<210> 4116
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 4116
aaaagaaaaa cntnaaataa ntgacttgat ttacacaaac atccttcctt tttctacaag 60
ttaattnttt tacaaatcat tngggatatt tcctaaatag g 101

<210> 4117
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
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<220>

3743

<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
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<220>
<221> misc feature
<222> (106)
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<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
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<220>
<221> misc feature
<222> (271)
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<220>
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<222> (284)
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<220>
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<222> (291)
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<220>
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<220>
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<220>
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3744

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<220>

<221> misc feature

<222> (434)

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<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 4117

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ggccatttct cacagaagat tnacactgga agctgatgaa aggatngaata aatggagagc 60
accactttcc tgcancatgat cacacagcaa acataaanca tggatngnca atntatttgg 120
aggcacagcg ctcccccggt gtggccaagc ttggaagtcc tgttcttaca aaattgctca 180
ctgcctctac cccatgtcag atcttataaa ggtgcagcaa gtgtggcaat aagcagactg 240
aggaaggcat aaagggtctg atgtgaagca nagaaggcag aggnngctga nggtttggag 300
taaaatcgag aatggccatg aagatttgac caaggagctc tgagattgag aaggaattan 360
aacgaagtcc acagggaagt tgagaaaatt ggcagaaaat tngaagagga gggnttcaac 420
aggagatgat caanattaa                                440

```

<210> 4118

<211> 69

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

3745

<223> n equals a,t,g, or c

<400> 4118

gcaagtactg caagaaatgg caggatgagg gatggcaaga aagcagctgg naanaaaggg 60
atttnanna 69

<210> 4119

<211> 196

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

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<220>

<221> misc feature

<222> (107)

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<220>

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<222> (112)

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<220>

<221> misc feature

<222> (121)

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<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<400> 4119

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aggtggagcgc ctggctgagcgc cgcgcccenag aacaagtacc ccgcggngcg cntgagccag 120
nagntgcanc gcgtgtggcg cgggcacacg gacaaggtgt tggggctggc ccggggccctg 180
tgggcccagg gacggc 196

<210> 4120

<211> 198

<212> DNA

<213> Homo sapiens

3746

<220>
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<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
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<222> (137)
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<220>
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<222> (151)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<400> 4120
ggggattgtg ggaggagccc ctggggggcct ggncgtgcct ccaccagaac ttggcattgc 60
tgccaacana ggatctgtgc ctcagctgaa gactagctcc ggaatgtcat aanggggtgtg 120
actgtgtatg cttctctnctt cttctcgatt ntgtggcatg gcacaagttg gctgggtgct 180
ttnacctttc ccatggtn 198

<210> 4121
<211> 93
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

3747

<220>
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<222> (10)
<223> n equals a,t,g, or c

<220>
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<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 4121
aatcctntn tcgatccacg cntccgcaat gtcnnggan atagtaatta attaagaaaa 60
tcgtgcaccc ttgttaccta gaatgcacgg atg 93

<210> 4122
<211> 52
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 4122
gaaaaaaaaat agctgtncaa taagtagatt taangnaatt agaacacttt at 52

<210> 4123
<211> 338
<212> DNA

3748

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

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<220>

<221> misc feature

<222> (71)

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<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

3749

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 4123

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ttcctgggcg ancacgcgct cgggagagct cccctgcac cgtggggcnc agccagagaa 60
ggcctgggac naanacccac tggggggcct cccacggagc agccagaggg gcnaggctgg 120
gtggggggcc ggagcacctg ctgcacctgt attcagggtg gatttttaag naagatctcg 180
ttgtagccgt gtcgctttcc taccaggagg cccatgacat ccggctgtct ctctggtaat 240
gttcatatca atgacggttg ttacctgngt cattatctca ctggggctgt nacnggggan 300
agttttattct atactttctt catttaccan ctgcaatg 338
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<210> 4124

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3750

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<400> 4124

aacctantgc cattcgggcn tttntatcag natcttttct aattgngagc atgtgtatga 60
gactatztat acccaaggat atgaaggaac ataatgtgac tacaaggctc taataagcca 120
cngagggcag gaggcctnang cggttctgtt nactaaattt ntctcctgt 169

<210> 4125

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (245)

3751

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<400> 4125

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aacattctat gcatatttgg ttgttatacc aattcatnaa tgaattcata aaatgactat 60
gaaaaaaatt atatgctatg ggatactggc aacagtgcac atatttcata accaaattag 120
cagcaccggg cttaatttga tgtttttcaa cttttattca ttgagatgtt ttgaagcaat 180
taggatatgt gtgtttactg tactttntgg tttgatcccg gntgtataaa tgatagcant 240
atctnggaca catttgaaat acaaaatgnt tttg 274
```

<210> 4126

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3752

<222> (140)

<223> n equals a,t,g, or c

<400> 4126

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tcgggtttcc ccggggaaaaa tttcccccg gggnttccgg acccccnacc ggccggtccc 60
cgnacncctt ggtttgggtt ttaaattaaa aagggttttt tttcaacntt cttggggccaa 120
aaaaaaaaaa aaaatntttt tataaaaaag t 151
```

<210> 4127

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

3753

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 4127

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gtcaggtgac ggcaggtgtc tnaccgctcg acnccggcccc tgccctctgg acgtgcgcgg 60
ctccaggtnc ccgcgggccct ccgcccagcc agctctcncg gtcttagcaa caaggnggct 120
gaccgcccgnn ccctgcagcg gctgatecccg tggnccectgc agacccagcc aacacccagc 180
ggtcccagag cgncccgcct gctacccgcn gtgggngggca cccgatggcc ggcgagggng 240
c 241

```

<210> 4128

<211> 286

<212> DNA

<213> Homo sapiens

<400> 4128

```

gaacctagta acctccagat cccagaggct ctccctcacct cagctgagct cctttgaaag 60
tgattcaagg gactatgtca ctccagcctca tttgctggac caaatctgga gggagaacct 120
ctaaaacccc taagtgaggt tgcccagggg gttgtcccca ggtgggggga agcaggggag 180
agaaaatggt agccattttt acattgtttt gtatagtatt tattgattca ggaaacaaac 240
acaaaattct gaataaaatg acttggaaac tgccaaaaaa aaaaaa 286

```

<210> 4129

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

3754

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<400> 4129
gggccaaaggg gtttaacccc cnggggttcc ccccggggna aanaatttnn ccccgggggg 60
ggttcccggg aaaccccccc aaagggggccc gggtttcccc cgtnaaaaac ccttttcact 120
tttggggggn ttntaanaaa aagaaanata c 151

<210> 4130

3755

<211> 149
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<400> 4130
nggangtgga aagctggtn cgcctgcaggt accgggtccgg aattccccggg tcgacccacg 60
cgttcgagag tgtctaattc tgcantcatg ggcgangaag aggaagatgc tananattac 120
aatttgacct gaanaacata aggcgatca 149

<210> 4131
<211> 266

3756

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<400> 4131
gctgtatacn nttaagagat ttctgacatt tattcttaca ctaaattggat caactctagg 60
atttaggcac gttaacttct gtngtggttt gaatctctcc agagttgcat gtagatagca 120

3757

tttattttctg tgcctttaaa cccatttana aaataactac aaagtaaaaa tgtagaggaa 180
atagaaatgt attttttcat gaacattttg atacaaattt catcatttaa tgattcacca 240
nagttctccg tntngtcnat ttana 266

<210> 4132

<211> 132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3758

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<400> 4132

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gnntttgatt anatnaatta gacntaatta aattagacgg tattccctaa aatgtataaa 60
tgtgtcactt tttaaactctg aaagccttct gatgatcaca atactntatn nggctataaa 120
tnnaatccac at 132

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<210> 4133

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 4133

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gattgttgcc tttcaccccg agtttgacta gcagcaagcc tgtcaataaa tgtaacattg 60
gtttcactta ggtgctcttc ctgggttttag aattccctga atgggcagtt tgacaggtaa 120
atgtggtcca aatcagtcgt tctttttacc acttaaaaaa aaaattttcc tttgtagttt 180
ttttgctgtc tccccgtagc ctaaattgtg gctgagctgc ctgaagcatt cctctgcttt 240
agaaaagaat tatccctagt ggcaaaaaan nnnn 274

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<210> 4134

3759

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (95)

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<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 4134

gcgaactccc acctctccat ggcttgcccta gccaggctgg cactgccact cacactcggc 60

3760

```

cccagggccc aggagggaca gtgcctggag cctgngnnag gcccagecca tctgtgtgtg 120
tgtatgtgcg tgtgatgcta cctctctctc cgccctctc caggggcccc gcatacacac 180
ggccatgcac gcacacactg ggccctgggc agggccccag agctcctgcc tgagctggac 240
cttatgcaaa catttctgtg cctgctgggt aggggcacgt ctgaagggcc ctgctccaag 300
cctgcaggac cgangggcac aagccggaca agggggtagc ccctggattn agcacacgaa 360
caccacacga gcacgtgcca cgcatgcctt cgngtngctc attttacaca anacccccctt 420
cccgggtnac gca 433

```

<210> 4135

<211> 63

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<400> 4135

```

gcggacgcgt ggggtttgtt taaaaggact gtcttttatt nataattgga ntgnaaatct 60
ntg 63

```

<210> 4136

<211> 133

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

3761

<220>
<221> misc feature
<222> (91)
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<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<400> 4136
gactagttct agatcgcgag cggccgctcg cgactagttc tagatcgcgga gcggccgccc 60
gcgatctngn tctagccggc gcgtgggtcg ncccgggatt tccggaccgg nacntgctgg 120
cgtaccagct atc 133

<210> 4137
<211> 616
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

3762

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (582)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<400> 4137
gaactgnaag ccgaggcgga aaagatgcgg gtgtcccagc aagaattact ttctgttgat 60
gaatctgttt acactccaga ctctgatgtg gccgcaccac agatcaacag gaacctcatc 120
cagaaggctg gttaccttaa tcttagaaac tggcagatga gagccatgtg ctggagacct 180
acctgcaagg ccagaggcaa gcaaaacagg gctggtcacc accacctggg agaggcttta 240
tttcttcacc caaggcgga atctcatgtg tcagcccagg ggagccgtgg ctggagggtt 300
gatccaggac ctggacaact gctcagtgat ggccgtggat tgccaagacc ggcgctactg 360
cttncagatc accacgcca atggaaaatc gggaataatc ctccaggctg agagcanaaa 420
ggaaaatgaa gagtggatat gtgcaataaa caacatctcc agacagatct acctgacctg 480
acaacctga ngcangtcgc gatcaagttg aatcagaccg ctctgcaagc aagtgaacttc 540
cattacaagt tttgaaaaaa aaaaanaaaa nnggccggcc gntntaaagg atccaagctt 600
tacgtacgcg tgcattg 616

<210> 4138
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)

3763

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

3764

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<400> 4138

```
ccacgcgttc gccacgcgt ccggtgtcaa ctaaattaat actgttgta aaagtaagtt 60
gtggatcttg gtcactccac acaagctaga ttgtcttaat atttgtatgg tgcactttta 120
cttacaaaag ggaagataaa atgttttggg gaataattac caggggtctg gccagggtcaa 180
aattggttag tccccttctc ccatcttcta attttggtag ntaatacttg gtaaaacatn 240
gggtttttta ataactcact aaaaagggtta ttctattntg gtantttgga taaaatgact 300
tgancanaan gttacagcac acgaaatttt cctttaagca aatngctctc aaatatagct 360
ttttgtcata tgcttatnca tgtttaagat gacatgaaaa cctnacaac tntaatntta 420
aaataaattt ttctttaata nggtatt 447
```

<210> 4139

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

3765

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 4139
gtaaaatcat aatcgtggat taccgcatta aatagttcta aatcagtnga actgctaata 60
acccttggtt atattgtatt ctctgatata gcattatcag agaaaactgt aggaggaata 120
gtctctgttg acagtgggtca aaggtagatt agagaatagt gggtttcctt caagtctgaa 180
nctgacctac taatcagcac atgtgtgagg gaactgccaa ggcagagaaa gaattttcag 240
aanggaggag gatgacagtc tctggagctc aacacggcta agccatctaa attttctctt 300
tactttgngt tacatnaatg atgaattgaa attncaaatt cataaanaca gttatgattc 360
tcaactacct gangttgcgt tcaacatca 389

<210> 4140
<211> 55
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<400> 4140
gaatacgtaa aaaagtataa gggaagcant gcattcgann tactgcacta ttntc 55

<210> 4141
<211> 251
<212> DNA
<213> Homo sapiens

3766

<220>
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<222> (47)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (120)
<223> n equals a,t,g, or c

<220>
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<222> (134)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
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<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (233)
<223> n equals a,t,g, or c

<400> 4141
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tgtaataggg agatacatTT catatcttct ttgttttatt catgctgcct gccanacagn 120
cttggtacatg gtanatactg aataactatc aaatgaataa gtagttatta anaccaagat 180
actttacaga naaaacttta ccanccttctc taggactang accccaaatc tgngctcaga 240

3767

gctgctagct t

251

<210> 4142

<211> 96

<212> DNA

<213> Homo sapiens

<220>

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<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 4142

ggaanaaaag tctttaatga tgaacatatt tcccccttaa gcttaaaatg tcttgccctt 60
gaatggtatc tnagcttaag gngaaaatan nattaa 96

<210> 4143

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

3768

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<400> 4143
gggaaaatgc aaaagcacat atatgtttta atatctttat gggctctggt caaggcagtg 60
ctgagagggga ggggttatag cttcaggagg gaaccagctt ctgataaaca caatctgcta 120
ggaacttgga aaaggaatca gagagctgcc cttcagcgat tatttaaatt attgttaaag 180
aatacacaat ttggggtatt gggatttttc tccttttctc tgagacattc caccatttta 240
atTTTTgtaa ctgcttattt atgtgaaaag gggtattttt acttagctta nctatgtcag 300
ccaatccgat tgccttaggt gaaagaaacc accgaaatcc ctcagggtccc ttggtcagga 360
gcctctcaag atTTTTtttg tcagangctn caaatagaaa ntaagaaaag gntttcttca 420
tttcatggct agagctagat ttt 443

<210> 4144
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>

3769

<221> misc feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (285)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (317)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
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<220>
 <221> misc feature
 <222> (368)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (382)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (384)
 <223> n equals a,t,g, or c

<400> 4144
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 ggaaatatat tgtagggata ggtagcagga cactaatagt gagtcccact catgactgta 120
 agtagtgact ttgggaggta tnttaaatac tgatgtcatt aagtaattaa cttgaattac 180
 ttgtatttta cttttagtta tcaagctgac tgctattata gtaaatatgt gtcttanact 240
 tanagtgaaa tggaaactgc ttagaagctt aactgtgtan gagtnaaagt gcacgggaac 300
 agatgggaac atttaantta tagaaataat tctggtggag ttctagggct ngtgcctatt 360
 tgttttantt tgttgtgaag antna 385

<210> 4145
 <211> 151
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2)

3770

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

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<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 4145

gnaagcatgt ttaatttnaa tagaagagag naaaggatat ggctgggtcnt ggaacatcaa 60
gttggttcctt gntccaactg catgaaatgc tggagaaaat tanaacattg cttnagagaa 120
ttggcctctt tanaatcaat tgccccagga a 151

<210> 4146

<211> 436

<212> DNA

<213> Homo sapiens

3771

<220>
 <221> misc feature
 <222> (432)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (435)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (436)
 <223> n equals a,t,g, or c

<400> 4146
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 tcacatatga atgactttgt atatatatat atattttttt ttttctaatt gttctggatg 120
 gaacttctag tacagtgttg aacacaatga tgaaagtgag catcagtgtc gtgttcctga 180
 tcttaaagct ttgggtgccca acaattcagg tgggtgattgt tatgggtttt gcataaaggt 240
 gttttatcat gtgaagaaaa ttccaatcct cagcttattg gtgggtttta tcattaaata 300
 cgttgattat ctttaagtac tttctgtaac agttgagata aacgtgtttt tcccatcatt 360
 ttaattatat agtatacgga aaaggaatgg ctttagtatg ttgaaaaacc tttgattttc 420
 tgaaaaaaa annnnn 436

<210> 4147
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (353)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (362)
 <223> n equals a,t,g, or c

3772

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<400> 4147
ggtaacatgc ctttcacatg tccaccttct tgccatgttc cagctgctct cccaacctgg 60
aaggccgtct ccccttagcc aagtcctcct caggcttgga gaacttcctc agcgtcacct 120
ccttcattga gccttctctg atcactccat ccctctccta cccctccctc cccaacct 180
caatgtataa attgcttctt gatgcttagc attcacaatt tttgattgat cgttatttgt 240
gtgtgtgtgt ccgatctcac aagtatattg taaacccttc ggtgggtggg ggccatatcc 300
tagatcgcca gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcnacgtcat 360
anctcttcta tagtgnccac taaattcaat tcactggncg cgntttacaa cgct 414

<210> 4148
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3773

<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<400> 4148
gaagccatag atgaggaccc atccttgact cctctccctc atccctccatt ttcagtcagt 60
agttagaaac cttcttggtta ttctgtgaa cccatcttact tgatcatctct ctactcttag 120
caccttaact tagactctct ttatttccca cctacctgaa tttccataaaa gcatcatcca 180
cttttgaagg cttaggactt tgcgtatctt cctcagggc ttagcttaga aaatcaggac 240
ttctctgacc tgttccata cctcaggtg agcttggtgc tgatgtcccc ttctncctct 300
tcatccatac ctctantctt cttctccccg tctcccatgg gctctcacag caccctgtgc 360
tattcttctg acacatataa catttgngn aatcgctagc ttttctgggt canaggncag 420
naactatgtt gactcatatt at 442

<210> 4149
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)

3774

<223> n equals a,t,g, or c

<400> 4149

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gaaaataatg taattgtaat ttggaatgt ggttttcctg aaatcaagtc atctatagtt 60
gatatgtttt atttcattgg ttaattttta catggagaaa accaaaatga tacttactga 120
actgtgtgta attgttcctt ttattttttt ggtacctatt tgacttacca tggagttaac 180
atcatgaatt tattgcacat tgttcaaaag gaaccaggag gttttttttg tcaacattgt 240
gatgtatatt cctttgaaga tagtaactgt agatggaaaa acttggtgcta taaagctaga 300
tgctttccta aatcagatgt ttggtcaag tagttnngact cagtatangt agggagatat 360
ttaagtataa aatacaacan aaggaagtct aaatattnng aatctttgtt aa 412
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<210> 4150

<211> 497

<212> DNA

<213> Homo sapiens

<400> 4150

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ggattgcact tcctgaccaa tcttattttg gagaaagatg gagacgataa tcctgtctgt 60
cgactgccag acttctaatt caatagataa cgttcttgag aaagacccca gaccaaaaag 120
agacacagat ataacttctg aaagtgacta tggaaacaga aaagaatgca atagaaaagt 180
tcctcgaaga tcaaaaatcc cttatgatgc caaaaccatt caaactatta agcaccacaa 240
taaaaactac aactcttttg taagttgtaa tcgtaaaatg aaaccacctt accttaaaga 300
attatatgta agtcctctt tagcaaaactg tcctatgtta caagaatcag aaaagccaaa 360
gactgaaata attaaagtag accaaagtca ctcagaagac aacacttacc agtccttgt 420
tgaacagcta gaccaagaga gagagaagag atggagagct gagcaagccg aaaataaact 480
catggattat attgatg 497
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<210> 4151

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

3775

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 4151
gaaagtatat aaatataaaa tgtataaatg atggatagat ttttgtattg atttgcaaaa 60
tgcagattat atttgatagg ctatagtatg tagatatcc ttttaggaat attacagctg 120
taaattatat gagacttgcc agtcaaatgc tatttggttt aaaaaaatta ttgcaatctc 180
aagttaatgg aatattttta aatcccacat tcanagttaa aaacactggt tttcaatgng 240
nctattagtg ttgtcacttg ttnatagata aatatataaa taacctgttt ggatcctggt 300
cctttttaac tgatccnttg gcaattctga gcatttattt gatgacttaa tatttntcac 360
tancctttgga gaacanatga accatttntt ca 392

<210> 4152
<211> 71
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>

3776

<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 4152
gtgcttttat aaagttgaac aaattgaatt tagacattca ggcaaagcta ctggggggttg 60
nntnctncna c 71

<210> 4153
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
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<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)

3777

<223> n equals a,t,g, or c

<400> 4153

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gccctgacat tacaggaaat ctacttagca acctcgttaag tgagaacaag tctaaaagca 60
gataaaatta attatcctag atccttagatg caacttttaa cttggcagtt attcccacag 120
catttctgtt tgggtattctt acaattgcct tacactcaga attcttacta aggggccatt 180
accatagtag atattacttg gcaaataata aatacaggga ttgagcaagc tgatgtaatt 240
gactgtcttg atttaaaatg tgtattaaac ttagatctac agaatggtag ggaggcagaa 300
acaagcaaat gacttaattt gtattgatgc caaattgggtg cttgcttgag cgcttcaaaa 360
tagcagagtt gttaacacta gctacaactc taaggacat nccataagta gggcacatag 420
ggaatttgaa ttcataccag aatttttangg attttatttt accttctaata atataattaa 480
gntctnattg tggngntaac ctttttttt 509

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<210> 4154

<211> 453

<212> DNA

<213> Homo sapiens

<400> 4154

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ggcgttttagt gtgttctaata ttttaattgtt ttatatcctg aaaccaatgg tgaaaagtaa 60
tttcattgag ggtacctttt caatgcctga gtagcataca gaatcatgat tatgagactt 120
tcttttatct ttctttataa aaatatgtgt ttttttttgt tgaaagtgtt ggtctcttta 180
aattcagatt ttgtcttagg acagtaaaac ccagggtgac tgactcagga aacagttgtc 240
tgctagtcac tcataaatgt acgggtcatat gttcactctt cttaaataatc caccttttat 300
aacacaaatg taaaatagta tcagtctagc caatgatgaa ctctggaatc cacttagtct 360
tcagtaagta tgtgctgtcc tctaaacttt gccctgaagc caggggatct tctcctaata 420
tatgtgacat aaaaatccat tttccatgta aaa 453

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<210> 4155

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

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<220>

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<220>

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<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

3778

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<220>

<221> misc feature

<222> (87)

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<220>

<221> misc feature

<222> (101)

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<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<400> 4155

ggccttaaaa aaaatgnttn ttaaagactt tggaaccaag gttggangga atttantgga 60
aaaaactttg gaaaaaaagg aagggtncaa cttcaataat nnanatagaa cagaaagttt 120
aancttggct ggtgggtaaa gaagaagaat ggccagttat tgaaatatg 169

<210> 4156

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

3779

<220>
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<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<400> 4156
cacgaaaaaac atctactact atctntcaag ccagtanatg ccaaatttct ttntgatcan 60
tagtgatnta caactcaagt gccatgttgc tctacagggtg cactgctata acgacagcat 120
ttccagaatn gcatgttctt nnattgtttg tgtcgcactt atatganatg tn 172

<210> 4157
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

3780

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<400> 4157
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taatgatttg tagactgaag agctagcagt atagtttgta ctccatgcca ttattcacag 120
atactatatt gaagtttgaa ctgtgttgct ggcagactgg cattatttag ctaacctgtg 180
gtaactgaaa ttcctgcatg tcagaattct gcaaagtaag gactacctgt atctatata 240
ttttttctct aagcactgct ttagttttat ctcaaaatt ttgacatttt gtgttctcat 300
attaattaaa ttcaagttac tttctaattc ctcttttgac tttctcattg acacataggt 360
tattttataa gtgtgtttta ttttctaata ttggggggga cttctganat gtctttttat 420
tattttattc taattaatnc cattatggn ggtaataata ctctgaatga tntccattct 480
tatna 485

<210> 4158
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

3781

<220>
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (315)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (318)
 <223> n equals a,t,g, or c

<400> 4158
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 caggacgacc ctgtaggtac caggaggggt ggggcagggt tgagcccttc gtggtctggt 120
 tgccacacta gctgcccttg ggagggggcca gtgtcccatg tggactaagg aggccaggcc 180
 tggccagact ccacatagcc cagagctgac cgcttgcccc aaatcaaagc atcttggcca 240
 ggtcagactc cttgaccagg actgccattg tggttaaaaa ttagccttgt gtggtggtgt 300
 gttncntgtg gtcnnagntt actt 324

<210> 4159
 <211> 134
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 <213> Homo sapiens

<220>
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3782

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<222> (114)

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<220>

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<222> (118)

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<220>

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<222> (126)

<223> n equals a,t,g, or c

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cnnttaccaa caggtnagcg cacgctgaat ggcgaatgng acgcgccttg aagacggagc 60

attaaaacac ggcaggaatg naggttggtt acaacacagg gtgaccgcgt acantacncc 120

atacngcta acag 134

<210> 4160

<211> 84

<212> DNA

<213> Homo sapiens

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<220>

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<222> (62)

<223> n equals a,t,g, or c

<220>

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<222> (65)

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<220>

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<222> (70)

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<220>

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<222> (84)

<223> n equals a,t,g, or c

3783

<400> 4160

gaaaaggatc aaaggatatt gaattcccg tccgacagaa agaggtctat atcaanagag 60
tngtngatcn ggcaaaaagat cttn 84

<210> 4161

<211> 310

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<220>

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<220>

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<222> (66)

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<222> (159)

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<222> (161)

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<220>

3784

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<223> n equals a,t,g, or c

<220>
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<222> (279)
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<220>
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<222> (298)
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<220>
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<222> (304)
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cccnctcgtc cgggacatga atagtcgcca ggcttgccgg ctctttctct cccaaggcag 120
aggagatcgt tgggtttcaa ggccccgcgg gcatttctng ncggncctgc ggagagagtt 180
cttcactacc acaaccaant gagggatag ataggcngtc agtggatata acttctttan 240
aacaaggaa attactttt gatacccatg cattggtna ggacttggaa actcatgnga 300
tttnacaaaa 310

<210> 4162
<211> 126
<212> DNA
<213> Homo sapiens

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<220>
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3785

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<220>
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<222> (123)
<223> n equals a,t,g, or c

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<222> (125)
<223> n equals a,t,g, or c

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tcctacggca ngntctaata cgactcacta taggcaaagn tncaacgcct gcagttaccg 60
gcacgaaatt cccgggtcga cccacgcgnc cgctcaataa atattctcat tgtcaatcac 120
ccnana 126

<210> 4163
<211> 145
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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3786

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<223> n equals a,t,g, or c

<220>
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<222> (87)
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<220>
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<222> (131)
<223> n equals a,t,g, or c

<220>
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<222> (134)
<223> n equals a,t,g, or c

<400> 4163
acgcctnccn gtaccgggtcc ggaattcccg ggtcgaccca cgcgtecggc ccgcagaagc 60
gagatnacna agggaacgtc atcgttngga aagcgtcggc aataagacgc acactgttgt 120
gccgtcgctg nggntctaag gccta 145

<210> 4164
<211> 230
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (122)
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<220>
<221> misc feature
<222> (123)
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<220>

3787

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<222> (187)
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<220>
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<220>
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<222> (210)
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<223> n equals a,t,g, or c

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ggaattccat ttntgggtcat attatggcag cttacaagcc tggcacagtc cagttatgca 60
gtcagccttg gtgcctggct gccagccaca ttctataccc tatttggggg tgaatggtgc 120
anngtttctc ctgcangtat gttccctga ctcttctttg cccccagaa tatgctttag 180
ggagtcncag acnacagaac actgccccan ggcgctgtcn atcactctat 230

<210> 4165
<211> 135
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>

3788

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<222> (109)
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<222> (121)
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<220>
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<222> (132)
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<400> 4165
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gnaggtaccg gtcggaatt gccgggaacg acccagcgt acgatttana tgctgctggg 120
natgttaatg anaga 135

<210> 4166
<211> 130
<212> DNA
<213> Homo sapiens

<220>
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<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

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<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3789

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<223> n equals a,t,g, or c

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<222> (101)
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<220>
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<222> (117)
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<400> 4166
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ctgtgcagnt accagcacac atgcaaagcg gaaaggcgac ntttctaggt gcccgangca 120
atacaagcat 130

<210> 4167
<211> 119
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
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<220>
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<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)

3790

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

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tntaatacga ctcantatag ggaaagntgg tacgcctgca ggtaccggtc cggaatatcc 60
cgggtcganc cacgcgtccg tgggattttt ntgtgttact ttggcngta ttttnaaac 119

<210> 4168

<211> 171

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

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<220>

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<222> (61)

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<220>

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<222> (83)

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<220>

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<222> (139)

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<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

3791

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<222> (166)
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<222> (168)
<223> n equals a,t,g, or c

<220>
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<222> (171)
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<400> 4168
cataacaatt ttacacagga aaacagntat gaccatgatt actggcaagn tntaatcga 60
ntcactatag ggaaaggtgg tangcctgca ggtaccggtc cggaattccg agggacgacc 120
cacgcgtccg ctttgaatna gagtcgaagg ttaaaatgag agangnanga n 171

<210> 4169
<211> 169
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (25)
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<222> (34)
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<220>
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<222> (62)
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<220>

3792

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<220>
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<222> (131)
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<222> (137)
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<220>
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<222> (143)
<223> n equals a,t,g, or c

<220>
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<222> (169)
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<400> 4169
tatgaccatg attactggca agntntaata cgantcacta tagggaaagg tgagacgcct 60
gnaggtancg gaccggaatt cccggatagc acaccacgcg tccgagagag tgtgcttgct 120
cagagacntg nagccantca ganacaggat taaatggtgc tgtgagttt 169

<210> 4170
<211> 169
<212> DNA
<213> Homo sapiens

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<222> (28)
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<220>
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3793

<222> (43)
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<222> (55)
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<220>
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<222> (156)
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<220>
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<222> (164)
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<400> 4170
aacaggtatg accatganta cggcaagntn taatacgact cantataggg aaagntggga 60
cgcgtgcagg aaccggtccg gaattccagg gtcgaccac gcgaccgaaa gtgtatgtag 120
tatataaaga atttggnta tgantgnaga atcaanataa taanatgta 169

<210> 4171
<211> 160
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (52)

3794

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<220>

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<222> (53)

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<222> (76)

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<220>

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<222> (91)

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<222> (112)

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<222> (128)

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<220>

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<222> (139)

<223> n equals a,t,g, or c

<400> 4171

gaaacccaag gaaagccgtt cggtnaaggt ccggtccgga attccccgggt cnncccacgc 60
gtccggtgta tcctgnttta aaaaaatgta nttttttttg aaataaacct tnatattctg 120
tatatttntc aaggggggng agaacctttt gaatgtgtca 160

<210> 4172

<211> 258

<212> DNA

<213> Homo sapiens

<220>

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<222> (16)

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<220>

<221> misc feature

<222> (19)

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3795

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<220>
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<220>
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<220>
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<222> (236)
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3796

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<222> (240)
<223> n equals a,t,g, or c

<220>
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<222> (245)
<223> n equals a,t,g, or c

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acaaccttac acaggnagnc agntatgacc atgattacgn caagctctaa tacgactcac 60
tatagggaaa gntggtacgc ctgcaggtac cgggccggaa ttcccggnct gaccacgcg 120
tncgttctat ttcttttgac aaatnngaac atttctaaaa ctaaaagagt ctttntattn 180
ttaaaacaca agtagaatga tttaaataagg attttaatga atttttggca agtggntgtn 240
ttaantttta aattgaga 258

<210> 4173
<211> 150
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
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<220>
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<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

3797

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<400> 4173
gctctaatac gactcantat agttgattgc tggnaacgcct gcanntaccg ggcccggaatt 60
cccggatcga cccacgcgnc cgaattgctg gcagccattt atgntaaaaa tgcatatatg 120
cattctgtna ggaagacttt atactgntan 150

<210> 4174
<211> 201
<212> DNA
<213> Homo sapiens

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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

3798

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<400> 4174
nagcctgna ggnaccggtc cggaattccc gttegancca cgcgtccgcc cacgcgnccg 60
catatttata gcttatcact taattttgtg tgccagggaa ggcattggcca gaattaatat 120
gccacagtac cctcatcatt gnttttatag ccattcatgc ccnncttcc tntggcacat 180
tttctaagan attatttcac a 201

<210> 4175
<211> 131
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

3799

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
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<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<400> 4175
tgattacnnc aagctctant acgactcaat atagtgattg ctggnaegcc tgcagntacc 60
ggtcceggaat tcccgggtcg acccacgcgt ccgcccgctc ccgtctctcg natttgtggn 120
ctncttggt c 131

<210> 4176
<211> 181
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (51)
<223> n equals a,t,g, or c

<220>
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<220>

3800

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<222> (60)
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<220>
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<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<400> 4176
aaacagcnc t gaccatgatt acgccaagct ctaatacgac tcactatagg nattgcttnn 60
acgcctgcag gnaccggacc ggaattcccg aatcgacca cgcgtccgct aacaggccnc 120
atacttaaga ttccatctac tttaagttna aaggattttn agaatnacct taagtgcnaa 180
a 181

<210> 4177
<211> 296
<212> DNA
<213> Homo sapiens

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<220>

3801

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<220>
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3802

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<220>
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<222> (270)
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gaattcccg gtcgaccac gcgtncgcgg acgcgtgggg ccctgttccg ttacccgngc 120
tacctcagcg gctacnagac nacactggnc ctgggcccgc tgnatgagtc accctgtgtc 180
cacgccacgc ccccgctgag cctccccag aacctcacag ntgaaggagc aggcaacct 240
ggagccngcg tgtcagncat ccgggaactn ttcaacttct ccagctgcca gggcca 296

<210> 4178
<211> 166
<212> DNA
<213> Homo sapiens

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<222> (30)
<223> n equals a,t,g, or c

<220>
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<222> (42)
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<220>
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<220>

3803

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<220>
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<222> (137)
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<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 4178
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aagggtggtt ttcagtn tgc tgagatcttg nttttctttt tgtgttcaca gatgaagccc 120
ggggcaagaa ctgtggngnc ttggtacatt gctnggctgg cattag 166

<210> 4179
<211> 297
<212> DNA
<213> Homo sapiens

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<220>
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3804

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<220>
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<222> (164)
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<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
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<222> (191)
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<220>
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<222> (196)
<223> n equals a,t,g, or c

<220>
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<222> (236)
<223> n equals a,t,g, or c

<220>
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<222> (238)
<223> n equals a,t,g, or c

<220>
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<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)

3805

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

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<400> 4179

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gactacttgc ttcgaaccgc tagacagtga acaaaggaac ttgatagctg ncctggacca 120
ggacgtcttg gcacaacctt atccggaatg caactacanc tacnccatag aacatcttac 180
nccccatcaa ntgagntgag ggggcgcaac ccgggttggc cccattggca acccangncc 240
ttagtagtc ccncccccca aaaaaanccc ttaggcatt tccttgggcn aaaatcg 297
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<210> 4180

<211> 128

<212> DNA

<213> Homo sapiens

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<220>

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<222> (5)

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<220>

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<222> (62)

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<220>

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<222> (79)

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<220>

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<222> (80)

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<220>

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<222> (113)

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<220>

<221> misc feature

3806

<222> (114)

<223> n equals a,t,g, or c

<400> 4180

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ttngnggact ggggtgtctct ggtcgaactc tgtccaaaaa cgtgcatggg atataacttg 60
anaagcttgc cacaattgmn gtataaagca tgtggccata cccaatttca ganngcttac 120
caatagag                                         128
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<210> 4181

<211> 403

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 4181

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gagaacaata ctgtaagggt aagaaggata gatttctttt tctattgact gctgaggacc 60
gaagctctag aatgtctaac agttcagcca ggatcacata ggaatattcc gattcagagg 120
cagaaatctg tggctctcac tatgctttca ggtcagatta gaggctcatt ccttttgaca 180
ccatgccatt gtgagcttcc aaaacaagat ccgctctcag gcaagcctct gaatgggtta 240
caaagttcaa aatggagcca agcacaagaa gagttgcca gagtgatata gaacgctctg 300
tggaagctg ntgtggaaaa tcagcacacc cagcgctgt agtaatttaa ccaatacagc 360
anaaaaacgt agcttgctg tttttnaaaa aaccntncac aga                     403
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<210> 4182

<211> 174

<212> DNA

<213> Homo sapiens

3807

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<220>
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<220>
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<222> (67)
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<220>
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<220>
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<222> (155)
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<220>
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<222> (163)
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3808

<400> 4182

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ggagagnaat caggaaaccc attgatagga ttatcgccag gcatgacctc tntcaatngc 120
cacttttctat tcttttgaag tagaactntg gagcnacagg gcnacagacg gcgg 174

<210> 4183

<211> 581

<212> DNA

<213> Homo sapiens

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<220>

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<222> (6)

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<222> (523)

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<220>

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<222> (527)

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<220>

<221> misc feature

<222> (539)

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<220>

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<222> (560)

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<220>

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<222> (561)

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<400> 4183

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gtctttccaa ggcactacaa ttagggcttt gcacccaaat acccttgccct cattttgggc 120
attttgtcct ggaacagagg ttcagctggg agaccctca cacacagggtg aaggcgtggc 180
tgtagaacct cagacccctt ggtctcctca ggaatgaagg tcattgccat cctcaccctc 240
ctcctcttct gctgtaagta gagagcttgg tgggtcagca ccaagcttct gtcttcctgt 300

3809

```

ttatgtcagt gggagggggg actctccagg tggcaccagg tgaggggaagt cacaagtcct 360
gcagaaaaga atcaggaaag gaacgggctc ccaccaacgt cctcttgctt ctgtttctgc 420
tataaaatgg gctgatccca gtgttgggat cttataaagt gtctaggaaa tcagagggtg 480
ccaaccattt gctagaaagg gagtttgact actattttac ccncctnacc ctcaagagnc 540
ttttttcctt tggatgctan naggctttat ttaaggccat t 581

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<210> 4184

<211> 76

<212> DNA

<213> Homo sapiens

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<220>

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<222> (52)

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<220>

<221> misc feature

<222> (60)

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<220>

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<222> (65)

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<220>

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<222> (72)

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<400> 4184

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gcggaacgct gggattgaat aggtcagaag tagaatcttt tcaatagggn anaaagttgn 60
ggtgnagagg antatg 76

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<210> 4185

<211> 66

<212> DNA

<213> Homo sapiens

<220>

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<222> (29)

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<220>

3810

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<220>
<221> misc feature
<222> (64)
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<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 4185
aacagcttaa gtccatgggt aatccgttna tagaaattgt gtttgctaan aaggtgccat 60
ttannc 66

<210> 4186
<211> 156
<212> DNA
<213> Homo sapiens

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<220>
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<222> (49)
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<220>
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<222> (122)
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<220>
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<222> (136)
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<220>
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<222> (143)

3811

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<220>

<221> misc feature

<222> (146)

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tgtatttctt atttaaaaaa tctttgcccc atttggtgaa gatattctct tatttgtnnt 120
cntaaaaatt accttnatag ctntgntttt aatatt 156
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<210> 4187

<211> 172

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (137)

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<220>

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<222> (152)

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<220>

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<220>

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<222> (169)

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<400> 4187

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atgagagttt atagtgggtt acttatntaa atatttgact tttaagttcc tcacaatata 120
tttcattctt ttntctnctg ttgcatggat annngcatata catacctana aa 172
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<210> 4188

<211> 138

<212> DNA

<213> Homo sapiens

3812

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<220>
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<220>
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<220>
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<220>
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<222> (137)
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<400> 4188
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gccatgcagg actactntgt aagccccata ggagatcctt ggcgcacaat gctgcggttc 120
tncctcngg gcttnang 138

3813

<210> 4189

<211> 67

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (56)

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<400> 4189

gactagttct agatcgcgag cngccgcct ttttttcct ttttacattt ttcttnttgt 60
ttatgat 67

<210> 4190

<211> 453

<212> DNA

<213> Homo sapiens

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<220>

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<222> (12)

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<220>

<221> misc feature

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<220>

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<222> (52)

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<220>

<221> misc feature

<222> (53)

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<220>

<221> misc feature

3814

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<222> (96)
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<220>
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<220>
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<222> (110)
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<220>
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<220>
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<220>
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3815

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<222> (364)

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<220>

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<222> (450)

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<220>

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<400> 4190

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ctgcaaaccn ttggcttgtc taaggaatga acaganggtn tnaagggctn attaagaant 120
aaantgaant gacatttana aatatggaaa tccattaaga gtntttaagg agcttgggga 180
gaggagcttt aataagaaaa gccatctgca ttgacagcca agaaccattg nttctttggt 240
gaaaactgac catttcaacc tgcacatgca gttgaggata agtttactga tcttgccaca 300
gatgagtttc aaacagaagg aataaggaaa acagtatcaa ttgtttccct ggaactncat 360
tcanatttca aggcgagtgc aatcagaaaag gatgatttct acttgctggg ttgatttaat 420
ccctttccan atgattgaca ttttctgctn ggn 453

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<210> 4191

<211> 104

<212> DNA

<213> Homo sapiens

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3816

<220>

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<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

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<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

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<222> (103)

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tgatctttac ctgntgactc tggaattgaa taaanaaaaa ttnc 104

<210> 4192

<211> 393

<212> DNA

<213> Homo sapiens

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<220>

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<222> (40)

<223> n equals a,t,g, or c

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<222> (48)

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<222> (51)

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<220>

3817

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<220>
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<220>
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<222> (172)
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<220>
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3818

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<220>
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<220>
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3819

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<220>

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<220>

<221> misc feature

<222> (391)

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<400> 4192

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ttttccnttc agccctgaca acccatccac acacgggcan gcctgttnat ntacactgnt 60
gcccactact ctctccagct ncacatgctg tacctggatc attctgaagc aaattccgan 120
cattacatca ttgtgtccat aaatatttct aacatnctta aatatacaat cngaattcaa 180
gcatctccca ttgtncacaa aatgtttggc tgatgntgta nttgnattgn ttgtattagg 240
attaaagcaa ggnccatata tngnatntat tngaaatgtc tгнаantctc tntccatcta 300
cagagtttan canatttgaa cgttgctggt tgaaatcccg aggtgtcatt tgacatggnt 360
ctctgaactt atctttccta taaaanggta nta 393

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<210> 4193

<211> 267

<212> DNA

<213> Homo sapiens

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<222> (147)

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<222> (149)

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<220>

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3820

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<220>
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ctctgtgttt acatactaatt ttgtgtaaga aatgcatttt agtctgtgta cctcaacctg 120
ctgtttgttt cctanagggtg ttagtantnt ttaaatacaa gtaagactta agaggatatt 180
tgatgttatt tacctggata ttttattccc cttttatnta tncacaggaa attgacattc 240
tangaccant aaaatgaana caaaatt 267

<210> 4194
<211> 301
<212> DNA
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3821

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<220>
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<222> (282)
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tcttacacgc acttcttcat atgtgggtcc ctccctggnga tcaccaggag gtccccaaaa 120
gtccctgatt gcagggtang tttgcagctc tgtttcagtc cattcttttg gggtagctag 180
gaggtgtcat tnactctgca ncatgatggc aggagcanaa gccacatntc ctcccccaata 240
aatacctctg tcttttcctta cgctaataaa aaaanaaaaa anaaaaaaaaa aagggcggcc 300
g 301

<210> 4195
<211> 110
<212> DNA
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<220>
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<220>
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3822

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<222> (101)

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<222> (105)

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<220>

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<222> (109)

<223> n equals a,t,g, or c

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ngnagcngctg caggtaccgg tccggaattc ccgggtcgac cnatgcgtcc gggtatatca 60
gtaataaaaa aaataacaga acccttaaag ggnatccaca ntgantggnt 110

<210> 4196

<211> 461

<212> DNA

<213> Homo sapiens

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<220>

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<222> (433)

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<222> (440)

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3823

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aggcttcgtc tcagaaggct ctatctgctg ggctggcggc catccccgtg ttgggtggac 120
cccgagcacg gttgcctgag gtccgatggc ccgagagctg ggactcagtt cttggcctgc 180
tagcggtga acaggccgca catctcactt cagttgtggc ctcattcagc agatgactct 240
ggaaccatcc tctgttacct gcagatcctg tcccatgggc tctggcccca agatgttggg 300
gggccccacg gagagttgac ttggtagagt tcctttcttg gaagaaagta ggagtggctg 360
accaggccct gctcatcacc cggatagagg acacggaccc ttgtgtggna ttttggcatt 420
ttggcttnaa agnccaatgn accattgttt gccanaaatt t 461
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<210> 4197

<211> 376

<212> DNA

<213> Homo sapiens

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<220>

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<222> (73)

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<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

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<222> (126)

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3824

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<220>
<221> misc feature
<222> (194)
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<220>
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<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
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<220>
<221> misc feature
<222> (218)
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<220>
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<220>
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<220>
<221> misc feature
<222> (276)
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<220>
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<222> (300)
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<220>
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<220>

3825

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<222> (331)
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<220>
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<222> (369)
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tcanaccaag ganacattta accatctctc cccctttcct ntgggggtgac tgcanttgan 120
gaaagnatgc catggggtaa ggggacattg gtggncacat tttggtgaca gaccctgct 180
gttgctctcg tgncccat ntctggactn tggcctgncc tctagtgtgt tgtgactccc 240
tctcttttann cccacacccc atgggtatgta tattcnttac aagtcctcca caagagcagn 300
tgtctangat gcgngaggg gaggtcctt nccttaggga gcgtggatag aaaggagcat 360
acttggtgnt gtattt 376

<210> 4198
<211> 65
<212> DNA
<213> Homo sapiens

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<222> (57)
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<220>
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<220>
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<222> (63)
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<400> 4198
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ganct 65

3826

<210> 4199
<211> 355
<212> DNA
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<222> (6)
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<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
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<222> (107)
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<220>
<221> misc feature
<222> (277)
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<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
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<220>
<221> misc feature
<222> (354)
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3827

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gaaganngtg tagaagaaat ctgccattta tattaataag aggaaaagga gcctctttct 60
taagacatct ctggatgaat gtttaagaaa ctgatggnta ttgcctntga tgaggggaat 120
tagatggctt gaggacgaag tggatggaag actttatatt atctttaccc ctttgtgtcc 180
ttttaatttt aaactacgtg atgtaacttg ctcaaaaagt agagataaaa tttaaaacaa 240
cccgaaaaat aaactctaga tcaattctat tgcttgncaa aggctttaat taancttgag 300
ggcaattctg ccttggntaa aggtattaaa gctatgcang caccaagctg aaant 355

<210> 4200
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
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<400> 4200
gctantaata aacggttgaa gtattgcaat aaaacttgag ttttaaaaaa aaaaaa 56

<210> 4201
<211> 178
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (65)
<223> n equals a,t,g, or c

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<222> (114)
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<220>
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3828

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<220>
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<222> (174)
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gaaccntaca ttttccaaga ctcaggggaac acagngatct acacagagtc ttgtgtttgc 60
acaanatgcc cagtggcacc atatgggtta ttttggtagg caggatcttt gcanatgaaa 120
aaaaaatcta catgtacttg attttaattg anttacattg anaatangct cctntgga 178

<210> 4202
<211> 50
<212> DNA
<213> Homo sapiens

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<220>
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<222> (15)
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<220>
<221> misc feature
<222> (41)
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<220>
<221> misc feature
<222> (50)
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<400> 4202
ggtcacnacgg gtcacnggtac cagcacgtgc aggagtgggtg ngagctgagn 50

<210> 4203
<211> 616
<212> DNA

3829

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (482)

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<220>

<221> misc feature

<222> (565)

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<222> (581)

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<220>

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<222> (598)

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<222> (605)

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<222> (614)

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<400> 4203

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aaggcctaca agattaaata atcaagtcac tattgtgaat ttggatctaa atgacctggc 120
agaaaccatg gagatgatct tggatttaaa gaggaaaaac tcaaagcaat gtattctgat 180
caagaaatgg caggaaatgg cagctacctg atatggaaca atcaacaact gaaggtttat 240
tttgaatgag aggtgttgtc caactgcgag acggagtgat tgaagctgag aataaatgga 300
aacacaatca atagtcactc cagtgaaggta ggaaagaaaag ccattccgaa gtggcagaga 360
agctgctttt tctccttgca tgctgcctgc tagtgtggat cttggcataa cagacactac 420
ttggcaaaag atccatcctt ccttttcccta tactttgctc agcggcctgg aagattganc 480
tnaaaagcaa aatcacctgg atttccttgc catttggett tcaaattgtc tcagccaatg 540
acaggctgga aagaaattga cagcntggga aaaagaggaa naatttgtgt ccaagaancc 600
ttcnccttcc catntt                                     616

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<210> 4204

3830

<211> 94
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (86)
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<400> 4204
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tcttcggaag ctncaanatg atggangtgg ctga 94

<210> 4205
<211> 370
<212> DNA
<213> Homo sapiens

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<220>
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<222> (315)

3831

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<220>

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<222> (320)

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<220>

<221> misc feature

<222> (347)

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<400> 4205

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atgtttatat gtggagaaat ggtacaggat aggaactgtg ttggaagacc tgatgtatat 120
ttacaaatag gtagatctca ttagcttata atatttggct ttgaagttga aggctagttt 180
tattcattgc actgtatttt gctatcagat gtgaatttat ttagaaataa agaattctgc 240
tgtgaataat tgaggaaata cttaattcct tgacttatgt aaagaacacc ttgttcaatt 300
ggattggggn aantngttan ggtgctaagg ctctgagtga aactctnagt actgtatctg 360
tgtcaatggt                                     370
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<210> 4206

<211> 351

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (14)

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<220>

<221> misc feature

<222> (27)

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<222> (65)

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<220>

<221> misc feature

<222> (78)

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3832

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<222> (102)
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<222> (105)
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<220>
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<220>
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<220>

3833

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<220>
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3834

<222> (338)

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<220>

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<222> (351)

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<400> 4206

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acgcntccgg accaattncg ggacagtcaa ggattctcaa tntgnatnnt ccaggcaaga 120
gaactttgta cnccttctct gtgtggatag actnncnagc gttnttccta tggaaatgcc 180
cacagggtct gacgcgtgga gactgatntg ntncatncgn tagcgcgagg nancagngtc 240
gcctcgcccn tccactgcg ggctcacggg gagctggcgt ctgncagtgc cttggcacgc 300
ctgggnataaa ggttggctgg angcctgtca ctggcttntg gagctgaagg n 351
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<210> 4207

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

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<222> (166)

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<220>

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<222> (168)

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<220>

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<222> (197)

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3835

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<220>
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 <222> (340)
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<220>
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 <222> (342)
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<220>
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 <222> (345)
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<220>
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 <222> (350)
 <223> n equals a,t,g, or c

<220>
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 <222> (389)
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<400> 4207
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 agggctctga gagctgtgct ccaggccagg ggttacacct gccctccgng gtccctccct 120
 gggctccagg ggcctctggt gcggttcgga gaanaagcna caccnanaag gtgacagctg 180
 agcccctgcc acaccnagc ctctgacttg ctgtgttgtc canaggtgag gctgggacct 240
 ccctggtctc cagcttaaac aggactgaac tccctctgtc cccagggcct cccttctggg 300
 cccctacag tctaccctac cctcctcca tgggacctgn angangggan acccaccttg 360
 aagtggggga tcaagtatag gcttgacant g 391

<210> 4208
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (35)
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<220>
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3836

<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
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<222> (117)
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<222> (121)
<223> n equals a,t,g, or c

<220>
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<222> (140)
<223> n equals a,t,g, or c

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gaatttctaatt ggaaacgccc gactataggg ttgtntggaa cgccccgcag gtaccgggtcc 60
ggaattcccg ggtcgaccca cgcnttcgta cagtttntgg gaccacattg aggtggntga 120
ngatgaagac gagacgcacn 140

<210> 4209
<211> 360
<212> DNA
<213> Homo sapiens

<220>
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3837

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<222> (315)

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<222> (338)

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<222> (347)

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3838

<220>

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cagatagggt ctgccaaccc taccctgana tggagctgct tccagccaca tcccatcgtg 120
gcatcattgt ggctggctctc ttgngctgta tcactgagct gtggcgctgc gtatgtggag 180
gagaagactc aatanaaaaga ggagtacact angctgaagc agtacantgc cagggcntga 240
tggccctcac agcttgaaaag tggaacagct gcttgtgtgg actgaaagca agttgtcctg 300
ccttccttgt acttnaaacc ctgctttgtt ctgaaagnac ctgatgngcn ggttcgngag 360

<210> 4210

<211> 157

<212> DNA

<213> Homo sapiens

<220>

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<222> (30)

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<222> (87)

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3839

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<222> (140)

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<220>

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<222> (150)

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gatatgctct ttaagtaata ttgagtnttt caaaagatac tncataatga tgaattaaaa 120
taactttata tntctctaan gaaataacan atagtat 157

<210> 4211

<211> 215

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<220>

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3840

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<220>

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<222> (165)

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<220>

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<222> (166)

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<220>

<221> misc feature

<222> (181)

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<220>

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<222> (209)

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<400> 4211

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ttaatacatt accnaaaaaa aagaatgggg gaaaaagnaa agngggcggtt aaggccccct 60
acgaccgcca tgcacgctag ctctatagng caccnatcat cactgncgcg ttacaacgcg 120
tgctggaaac cctgcgtacc cactaatcgc ttgacacatc ccttnncagt gggaaacgaa 180
naggccgccc tcgccttcca cagtggcanc tnatg                               215
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<210> 4212

<211> 103

<212> DNA

<213> Homo sapiens

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<220>

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<222> (29)

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<220>

<221> misc feature

<222> (69)

3841

<223> n equals a,t,g, or c

<220>

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<222> (73)

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<220>

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<222> (84)

<223> n equals a,t,g, or c

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tgcctgtanc ctncctattc tcanaccac tttcctgttg ctt 103

<210> 4213

<211> 211

<212> DNA

<213> Homo sapiens

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<222> (45)

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<222> (64)

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<220>

<221> misc feature

<222> (79)

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<220>

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<222> (108)

<223> n equals a,t,g, or c

3842

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<222> (168)
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<220>
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<222> (181)
<223> n equals a,t,g, or c

<220>
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tgcnatcttc tcctaataгна cctgacccca aagtcaggct gtccgcgnct cggcctgacc 120
gtcacacagg gcggcaacag agcactaaga cgtgngacat atgaaatnga anagaacgtg 180
naacagatna ttattctctt gaatgtgata g 211

<210> 4214
<211> 162
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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<222> (33)
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3843

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<222> (131)
<223> n equals a,t,g, or c

<220>
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<222> (134)
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tcatgctcgn atgcatgagg ctgtgacaac cactcacgca naaagcctct cctgtccccgg 120
taaatgagtn nacngccgga agcccccgtc cccggctctc gc 162

<210> 4215
<211> 129
<212> DNA
<213> Homo sapiens

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<220>

3844

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<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
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<400> 4215
agtgaagtnt gcgaagataa gctcttaatt cgtgggtgat ctgtatctct ngctttntaa 60
tgtaacaaaa atatcttaca gatacatgaa attangaana tctaaaagta ccattactct 120
aaactaana 129

<210> 4216
<211> 302
<212> DNA
<213> Homo sapiens

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<220>
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<222> (16)
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<220>
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<222> (24)
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<220>
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<223> n equals a,t,g, or c

<220>
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3845

<222> (96)
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<222> (146)
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<220>
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<222> (194)
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3846

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<220>

<221> misc feature

<222> (229)

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<222> (291)

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<222> (298)

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<400> 4216

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cagncatgca cactcgggat cactccaaat gatagnaaag cnaaanattt aaaggggtgt 120
ctcttgatan acagaacatc accatntaag ncgctgtttt acgactgtna cactgacaag 180
ttgtgggtcaa nccngaggaa tgtcaagcag acantgggtga acatttgana ggcatagtg 240
agctttgtca atgganctac ctgcgatctg tggattgggc gaataaaaaa ngacacgntt 300
tg                                                                    302
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<210> 4217

<211> 127

<212> DNA

<213> Homo sapiens

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<222> (3)

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<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

3847

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<222> (68)
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<222> (81)
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<220>
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<222> (108)
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<220>
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<222> (109)
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<220>
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<222> (124)
<223> n equals a,t,g, or c

<400> 4217
canccggagg aaaggcacgt nagganctgg tttggcgggga ttcgtgaagc cgcgaggtg 60
gtgggtgnac ggtgcaggag nagattgttt ggtactgagc gtgcgcnna caggttgggg 120
gganatt 127

<210> 4218
<211> 359
<212> DNA
<213> Homo sapiens

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<220>
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<222> (24)
<223> n equals a,t,g, or c

<220>
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<222> (37)
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<220>
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3848

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<220>
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<222> (101)
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<220>
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<222> (152)
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<220>
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<222> (193)
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<220>
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<220>
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<222> (259)

3849

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<220>

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<222> (265)

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<220>

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<222> (295)

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<220>

<221> misc feature

<222> (306)

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<220>

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<222> (315)

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<221> misc feature

<222> (346)

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<400> 4218

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gtggtncaga gagtccggga ggccgtctga cnaccagcc ngaaacagcn ctccgatccc 120
agctgataag gagctggggc tcggtgtcta tntgtgaacc actgcacgcg gacacattac 180
aggctcgggc tgnncgtcct ctccgtctgc agctgcatct ccgctaattg ggccagctgc 240
taacattgag gntggnnncn atccnttcgg cgctccgtga gacaaggcag cctgnccacc 300
agctgngcac ttcgnctgat gacacagatg gctcatgaat gcctgngacc ggggtgcggc 359
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<210> 4219

<211> 139

<212> DNA

<213> Homo sapiens

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<222> (22)

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<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

3850

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<220>
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<222> (76)
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<220>
<221> misc feature
<222> (86)
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<220>
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<222> (96)
<223> n equals a,t,g, or c

<220>
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<222> (111)
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<220>
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agtacaggcc aacctnccac tgcctnctct gtcenagaa aactcgagga ntgncttctt 120
ttggtttact aactgttca 139

<210> 4220
<211> 257
<212> DNA
<213> Homo sapiens

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<220>
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<222> (33)
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<220>
<221> misc feature

3851

<222> (34)
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<220>
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<222> (43)
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<220>
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<222> (48)
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<220>
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<222> (104)
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<220>
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<222> (155)
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<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
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<222> (224)
<223> n equals a,t,g, or c

<220>
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<222> (233)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (252)

3852

<223> n equals a,t,g, or c

<400> 4220

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attgcttaga agaagtggcc cgctcaggga acccagccct acancgcca atccgaaagg 120
gcaactctct ggnccctcca ggaggacccc agggntgaag gaagctgcct tgaccacatc 180
tccgcaggaa atggctcagt ccgtaagnt gtgaaaaaag ctgnccgcgc tgnngagtcc 240
ttccaatgct gncatgg                                     257
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<210> 4221

<211> 288

<212> DNA

<213> Homo sapiens

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<220>

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<222> (53)

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<222> (66)

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<222> (73)

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<222> (84)

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<222> (148)

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<220>

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<222> (150)

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<220>

<221> misc feature

3853

<222> (163)
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<220>
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<222> (167)
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<220>
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<222> (225)
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<220>
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<220>
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<220>
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<222> (280)
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<220>
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<222> (288)
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ccgcancctg ccntgcagag aatngcagga tcccgatctg catgattcag aaaggcatga 120
caagagaaga ctcaccgtaa atcaaggntn aaagaaaaga agngaangtc tcgcactgtc 180
aaaccagtgg tggtaacaaga acggcggacc cgggtggtaa actcncaa at gctagaatta 240
tctctnaaga tgtcctcgaa gctgttngcc acggaaaaan cgatagtn 288

<210> 4222
<211> 149
<212> DNA
<213> Homo sapiens

<220>
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<220>

3854

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<220>
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<222> (47)
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<220>
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<220>
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<220>
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<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<400> 4222
ttgactttnc aaagaaacac ggctccgtcc gaccagaata aaggcncca caaaaactca 60
ctcagggagg tggncgcggg gccncggctg gaaaacaatg catgaggggg ngcatctett 120
cagcttagca gngtgacnca agaggctaa 149

<210> 4223
<211> 112
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature

3855

<222> (36)
<223> n equals a,t,g, or c

<220>
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<222> (42)
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<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<400> 4223
catacagaca actctataag actaccngag gaccnctac anattcanca tgacaagcga 60
taaggatcac tataactgtc ccacaangag tacagtctat aacatagctg ga 112

<210> 4224
<211> 200
<212> DNA
<213> Homo sapiens

<220>
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<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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3856

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<220>
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gtgncgcggg ataaccctgt gtggaattgt gactgggtatt tcagaagaag agaatggcaa 120
gatgagaagc tgnataagga gatgggtaga tcataggnac caatgcataa catanatnga 180
agatataang aagggaaaaa 200

<210> 4225
<211> 102
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (57)
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<220>
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3857

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<220>
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<222> (98)
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<400> 4225
aactcgctac cttcggagct tttaaccttt tgnctcgget caaccatccc gagattnggn 60
gataatggaa cgcacacaca cacaagncce catcgcancc ac 102

<210> 4226
<211> 135
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (44)
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<220>
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<220>
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<220>
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<400> 4226

3858

tgtgagaatg gggaaggggg ggncttaaaa ttctgtgggg gggntnttct ccaaacatag 60
ttccaccatc gcatccccgg acccnctgc atatcgatgc tngacatcgg ggagggagta 120
agctaccact gtctt 135

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<211> 180

<212> DNA

<213> Homo sapiens

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<220>

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<222> (21)

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<222> (58)

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<220>

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<222> (74)

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<220>

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<222> (87)

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<220>

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<222> (103)

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<220>

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<222> (147)

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<220>

<221> misc feature

<222> (158)

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<220>

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3859

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ggtttggtat gtgnaaccca aggtatncga ttattgaaca gcnatatgat aggaatcttt 120
tcatacagca gtcttgggat gtataanctg aactgggnca tggcgagata nttgccaaag 180

<210> 4228

<211> 212

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (2)

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<220>

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<222> (11)

<223> n equals a,t,g, or c

<220>

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<222> (33)

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<222> (112)

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<220>

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<222> (185)

3860

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<220>

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<222> (191)

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<220>

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<222> (200)

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<222> (207)

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<400> 4228

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cacacacaag gtggacaaga gagtcaccaa atttgtacaa aactcacaca tnccacgtgc 120
agncactgac tctgcgggga cgcagcttct cttcccaaaa ccaaggacac ctcataaatc 180
tctnaccct nacgtacatn ctcgtgntgg ac 212
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<210> 4229

<211> 145

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

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<222> (12)

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<220>

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<222> (30)

<223> n equals a,t,g, or c

<220>

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<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

3861

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<220>

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<222> (130)

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<220>

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<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 4229

tctntcaaaa tnttgggagc tttaagaacn ttgacattga aacgagctgg gaatggaaag 60
gctagcaagt atgctgggca tgcccnctga agccccnctg gacgaggata ccataaatct 120
cttgtggaan nnagaccaga cgaca 145

<210> 4230

<211> 309

<212> DNA

<213> Homo sapiens

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<220>

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<222> (11)

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<220>

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<222> (17)

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<220>

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<220>

<221> misc feature

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3862

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<222> (208)
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<220>
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<222> (231)
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<220>
<221> misc feature
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<222> (302)
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<220>
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catgaaggag atggaacnca gatgtgcgca ttgcaccagg ctcaacaaag ctgctggcca 120
aaggaataag gatgtccata ccgaatccgt gtgccggctg ccagaaacgt aatgaggatg 180
aagatcacca gataagctaa tacttgggnac ctatgacctg taccactttc naaatctaca 240
gacagcaatg tgatgaaaca aatcgctgtc gtanatcaaa taaagtataa atcgcttcaa 300
anngaanat 309

<210> 4231
<211> 115
<212> DNA
<213> Homo sapiens

<220>
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<222> (36)
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<220>
<221> misc feature

3863

<222> (48)
<223> n equals a,t,g, or c

<220>
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<222> (50)
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<220>
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<222> (81)
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cactgcatct ggacttcctg aatgaggcgc tcggtnccca gctggatncn ggaacctgcc 60
cttcctaggn acaccctagg ntaccctctg ctcttcct gctgtgtggg gagat 115

<210> 4232
<211> 253
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (30)
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3864

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<220>
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<222> (196)
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<220>
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<222> (204)
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<220>
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<222> (208)
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<220>
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cagcaccacc tgtggcagga cgcagcttct ccccccaaa cccaaggcac cctatgatct 120
ccggaccctg aggcacgtgc gtggnggtga cgtgaccacg aagacccgan gtccagttca 180
acctggaccg tggacngcat ggangtgnca taatgcnaga caagccacgg aggagcagtc 240
aacagcacgt ccg 253

<210> 4233
<211> 102
<212> DNA
<213> Homo sapiens

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<220>
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3865

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<220>

<221> misc feature

<222> (67)

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<220>

<221> misc feature

<222> (69)

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<220>

<221> misc feature

<222> (78)

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<400> 4233

gaagtncatc gcttaacctg cgtggaattt tgcgaccttg tatgcaggga aacagggcnc 60
ctgaagnrna ctcttctnag atatcaacta ttgatgatat cc 102

<210> 4234

<211> 231

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<220>

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<220>

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<222> (76)

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3866

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<222> (194)
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<220>
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<222> (224)
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<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<400> 4234
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ttccccgtaa ttntcnaagg aaaatgatac aagactaatt acatactgat taaaaagcaa 120
nctagaaact tcttacatat ctctatttaa catttgnaaa gaaacaaatt gtcaggggct 180
ctgcagacaa catnatatct cttaatcatg caaattaaat gatnnatana a 231

<210> 4235
<211> 202
<212> DNA
<213> Homo sapiens

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<220>
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<222> (18)
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3867

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<222> (44)
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<220>
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<222> (66)
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<220>
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<222> (69)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (145)
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<220>
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<220>
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<222> (164)
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<220>
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gacagnatng ctgttcacag actgggttatt ttctcaggaa agaacaaaaa gtacaacagg 120
ctcttctaga aagtctggan tctgnctgga gatagncagg gagnaccagt gtagtgaagg 180
agaanctaca tcttaagaag tg 202

<210> 4236
<211> 103
<212> DNA
<213> Homo sapiens

3868

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<220>
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<222> (52)
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<220>
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<220>
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<222> (75)
<223> n equals a,t,g, or c

<400> 4236
ttatacatgc attgtgagaa aatgtgatgn ggcaagagtg agtaataatg anccctacaa 60
accncagcag aantngcatc ttatcttttag aaaaaaaaga taa 103

<210> 4237
<211> 390
<212> DNA
<213> Homo sapiens

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<222> (22)
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<220>
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<222> (39)
<223> n equals a,t,g, or c

<220>
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3869

<222> (103)
<223> n equals a,t,g, or c

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<220>
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<220>
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<222> (227)
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<220>
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<220>
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<220>
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3870

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<222> (356)

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<222> (385)

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<400> 4237

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taccgcatat aagataagct gaaacgctgc tggagtgtgt gcngtgccac ctttggcgct 120
tcgggctnan caggtgcaag tggactgcac cttctgcagc tctactgtgg cgtttgtggc 180
ncgaagaact cgtnacttnt gtgacgaagt ggtggctctg tgccctgnctg ccagnctgt 240
nccatggacc cagtgtggtg aggcactctgc agcgcgntag gccagcgctg catgaccgtc 300
tgncctgacc catggacca gatctgtctc ggtggccttc cctcatgcag gtgcannccg 360
gctaataaca tgtgtggctc caanntaaaa                               390
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<210> 4238

<211> 122

<212> DNA

<213> Homo sapiens

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<220>

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<222> (72)

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<220>

<221> misc feature

<222> (82)

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3871

<400> 4238

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ttccccgggtc tccccacgct tncgctaaag agttgctgct tttttcataa aaaaaaaaaa 120
aa 122

<210> 4239

<211> 349

<212> DNA

<213> Homo sapiens

<220>

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<222> (20)

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<220>

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<222> (47)

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<220>

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<222> (109)

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<220>

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<222> (288)

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<222> (316)

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<220>

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<222> (319)

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<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<400> 4239

3872

gagggattgt gacgacgagn ttgggagagg acaacagaga aatgganaga tgtggatgga 60
gttccttttag tctctgctct tgtgctcctc tgggggaatg tcttatacng ttttaaagga 120
ctctgtggtc aagaaagttt gggaaacact gttccaaatg tctgcaagcc ccacgaccct 180
attcaactcc atgacagctt ctattgatag gctctatcct cactgtaaaa attttcaatg 240
tatgctctga tggctactgg taaagaatgn tacggaacca gcttggtntt ctggaaactg 300
gtaaataaca ggaacnatna ngcattaatt ctgctattgg tcactaata 349

<210> 4240

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (53)

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<220>

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<222> (86)

<223> n equals a,t,g, or c

<220>

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<222> (107)

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<220>

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<222> (250)

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<222> (276)

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<220>

<221> misc feature

<222> (287)

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3873

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<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<400> 4240
ggcatggcgg agccgctgnt gcgccgcgga gaggccgggc gagtcgggcg ggntcggcgc 60
ccgcgctgag ccgcggagga ggggcngagg acgcccctgc agccggngcg tctgcectca 120
gtgaggcggg gcgcgcggcg gacgcccccg ggcaggggcg ggagnggtgg aggcgccggc 180
ggatggcact gacaggggcg gtgagcgagc cgctccggtc tccgggcgag gcttggcctt 240
cctagcagan acgccgtcta ccgcaggacg ttccancgag ggaaaannan tcggatcgta 300

<210> 4241
<211> 131
<212> DNA
<213> Homo sapiens

<220>
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<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
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<222> (66)
<223> n equals a,t,g, or c

<220>
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<222> (70)
<223> n equals a,t,g, or c

<220>
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<222> (99)

3874

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

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ggtacgtgat anntttggga angcecccg tccggttttg ccgggtcgcc ccacgcgtgc 60
gaaagngatn atacatgtat ttgaacactt gatggttcna acagtcttaa atgtaatgct 120
tgggggnaag c 131

<210> 4242

<211> 146

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

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<220>

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<220>

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<222> (88)

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<220>

<221> misc feature

<222> (91)

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3875

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cgggtcgacc cacgcgtccg gcgtgatnca nggtctgggg accacagtgc tgatggaggg 120
ngaggctacc tnaagaaagn gagatg 146

<210> 4243
<211> 300
<212> DNA
<213> Homo sapiens

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<220>
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<222> (6)
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<220>
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<222> (15)
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<220>
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<220>
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3876

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<220>
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<222> (287)
<223> n equals a,t,g, or c

<220>
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<222> (293)
<223> n equals a,t,g, or c

<220>
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<222> (296)
<223> n equals a,t,g, or c

<220>
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<222> (298)
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cacgcgtccg gggctcntcg ggaccagatc cgcgagcccg tcagcctgng ccatgggctg 120
cgacggccgc gtgtcggggc tgcctcgccg caacctgcag cccacgctca cctactggag 180
cgtcttcttc agcttcgggc tgtgcatcgc ctctctgggg cccacgctgc tggacctgcg 240
ctgtcagacg cacagctcgc tgccccagat ctntctgggtc ttcttcnecg agnagntntg 300

<210> 4244
<211> 318
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (49)
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3877

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<220>
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<222> (214)
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<220>
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<222> (311)
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gctgggtttct gcctnatcc tttaacacag catcttctcc cagaggcctg aggatgggaa 120
aaagtgatgg agaaaagggg aaccacctaa gtcacccctc agccaggggg aactgtttaa 180
caggggtttg tctctgccct tttagacctt tggntttcta cctggctcag gcaccaggt 240
ttatgttttc tagatcaaaa ctctgcatgg nctccctgag aagactggga gaagaantt 300
ncntcagga ntgggatt 318

<210> 4245
<211> 206

3878

<212> DNA
<213> Homo sapiens

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<220>
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<222> (73)
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<220>
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<220>
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<222> (121)

3879

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

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<220>

<221> misc feature

<222> (159)

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<220>

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<222> (179)

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<400> 4245

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ggctcgccctt tcacaaagag cttcaacagg ggagantggt agagggagaa gtgccccccac 60
ctgctgntca gcnnacagcct gacccnntcc catnctctgg nctctgaccc tttnttcaca 120
ngggacctac ccctattgcg gtcctccagc tcatntttna cctgaccctt cttcttctnc 180
ttggctttaa ttatgctaata gttgga 206
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<210> 4246

<211> 137

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (7)

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<220>

<221> misc feature

<222> (52)

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<220>

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<222> (55)

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<220>

<221> misc feature

<222> (76)

3880

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

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<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<400> 4246

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cctnttngaa agccccgggc cggatttggc gggctcgaccc acgctgtccg gngancctttt 60
tattaggaaa tgcantnaac catgttttag atgagtgccta aaggaagctt ttnagggggc 120
ccctgncaat aaggag                                     137
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<210> 4247

<211> 108

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (35)

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<220>

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<222> (54)

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<220>

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<400> 4247

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agggtggaac gccgcaggt accggncggg aattncggg tgcacccacg cgtnccgggca 60
taatcngggc tcacctggac ttaagcagnc tggctggaat ccacagtg          108
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3881

<210> 4248
<211> 164
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (11)
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<222> (99)
<223> n equals a,t,g, or c

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<222> (130)
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<220>
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<222> (137)
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<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c

<400> 4248

3882

accacngaca nctcggaaac gnccactat agggtaggn ggaacgcccg caggtaccgg 60
tccggaattc ccgggtcgac ccacgcgtcc ggtactctnt taaaattcct gtgtaaactg 120
ggactttgcn gttcacnttc ttgtgtttca agaacagtan cncg 164

<210> 4249

<211> 196

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (9)

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<220>

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<222> (34)

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<220>

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<222> (132)

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<220>

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<222> (133)

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<220>

<221> misc feature

3883

<222> (144)
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<220>
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<222> (163)
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gtctatctgc tgatgagcta agaatttgca agacagtaca gctgcagcag ncatcactaa 120
gcagaacttc tnnagccaca catnaccaca gaatctcact ggncattgtg ctatgctctg 180
ccaatggcat gctgaa 196

<210> 4250
<211> 259
<212> DNA
<213> Homo sapiens

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<222> (4)
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<220>
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<222> (31)
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<220>
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<222> (33)
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<220>
<221> misc feature
<222> (49)
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<220>
<221> misc feature
<222> (51)
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<220>
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<220>
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3884

<222> (138)
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<220>
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<222> (152)
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<220>
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<222> (196)
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<220>
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<222> (200)
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<220>
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<222> (209)
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<220>
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<222> (247)
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<220>
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tctttccacc gtgtgctggg aaaaggcatc ggagacctgg catcgcaaag ctctctttga 120
ngaaagatga tctcgatnca tcccgagctg angcctcatc aagaagggga agattcgtga 180
aaccctgaag tgaccntgtn ctggtggcna gttcctaatt atgaaaggat atgcactgaa 240
agccgtncng ataacttga 259

<210> 4251
<211> 187
<212> DNA
<213> Homo sapiens

<220>
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<222> (6)
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<220>

3885

<221> misc feature
<222> (30)
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<220>
<221> misc feature
<222> (40)
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<222> (45)
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<220>
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<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
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<220>
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<222> (143)
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<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<400> 4251
ccaccncgtc tttgactgcg tactctgtan gttgctcacr gcatntgcan acatcctatt 60
atgtcatata atatgcagat gacataagac tattttctaa acatcctcca tcttcacag 120
agtgtgatgt canncctcag tgnctatntg gacttagatg ggntcactct tctctggaat 180
gatgaga 187

<210> 4252

3886

<211> 134
<212> DNA
<213> Homo sapiens

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<222> (18)
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<220>
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<222> (65)
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<222> (70)
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<220>
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<220>
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<222> (117)
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<220>
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<222> (130)
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<400> 4252
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tactntggtn cgcttgggac aactagaaac ttaaacagca aatggccaag tnaacanaca 120
ttgtgcatan gctg 134

<210> 4253
<211> 115

3887

<212> DNA
<213> Homo sapiens

<220>
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<222> (102)
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<220>
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<222> (105)
<223> n equals a,t,g, or c

<400> 4253
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gcaacatgtg tcgccaggna ggancgtgtac cttctgttcg anacnaatgc ggctg 115

<210> 4254
<211> 104
<212> DNA
<213> Homo sapiens

<220>
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<222> (25)
<223> n equals a,t,g, or c

3888

<220>
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<222> (39)
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<220>
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<222> (48)
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<220>
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<222> (77)
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<220>
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<222> (84)
<223> n equals a,t,g, or c

<400> 4254
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gagctgtcat tgagccntca tcantcgcta ctggagaaca tatg 104

<210> 4255
<211> 242
<212> DNA
<213> Homo sapiens

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<220>

3889

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<220>
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<222> (211)
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<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

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ttgaacacta acgagatatt gcagcccttg acggagaata gagcacatag aagctcgggtg 120
acnaaagggtg agacactcac ctagaacagt gccgtgctgt gctgngaagg tgcttacaca 180
cacaggccac atgggaaagg cccagcagcc ntaagctnct acttctccat aaagagnaca 240
ng 242

<210> 4256
<211> 235
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

3890

<220>
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 <222> (37)
 <223> n equals a,t,g, or c

<220>
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 <222> (78)
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<220>
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 <222> (87)
 <223> n equals a,t,g, or c

<220>
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 <222> (118)
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<220>
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 <222> (142)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (162)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (190)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (216)
 <223> n equals a,t,g, or c

<220>
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 <222> (222)
 <223> n equals a,t,g, or c

<400> 4256
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 tacacttctc tgctctangg ctcagancac atacgacgga tagcaccaca acctgctncg 120
 gacgtcgatt gagctaagca tnggtgctgt cgtatccgtc tntgccgaag actgtgacgt 180
 gaaatgaatn tggcagtcctc tcaactcgat tcccanagcc gngactgatt gactg 235

3891

<210> 4257
<211> 266
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
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<220>
<221> misc feature
<222> (141)
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<220>
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<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (217)
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<220>

3892

<221> misc feature
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<220>
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<222> (255)
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ncagtngaaa tgggagacta gnctcagctc ctatacgcac cctggagagc ggctcatctc 120
tgatgtctag cagacctcct natagaatgg aacaactatt ggatgggtacc tgagaaccag 180
gcagtctcac agntcctgat cattgggtcta atccngnctc cgggtcctgc aggtcantgc 240
agtgggtatg cacanactta cactga 266

<210> 4258
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (27)
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<220>
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<222> (44)
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<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<400> 4258
ggggaaggna cgggggacca gttgggnaaa agggccccc tttnggggaa aaacggggcc 60
ccgtaagaag ggaaggatnn ggagagcggc gacgaaaccg g 101

<210> 4259

3893

<211> 105
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
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<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<400> 4259
attgcttaat tgcntgggta cctttnatat caactattat ctttctggga aagttttcgt 60
ttttctgtaa accaacctcc atngacncga naaatcattt cttaa 105

<210> 4260
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)

3894

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 4260

ccattgatct gccgcagnan tttctagaca atcggccaca atagaagctg cgtaatanat 60
agatgaaanc attcctctgt actctttaat nccatccttg a 101

<210> 4261

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

3895

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<220>
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<222> (163)
<223> n equals a,t,g, or c

<220>
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<222> (191)
<223> n equals a,t,g, or c

<220>
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<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
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<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<400> 4261
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tctgccatct actgacttaa ttttcaattc tgcnaactcca tcttcaaacc ccctnanctt 120
tccnatccta ctcttgcnat gcattgaagg gtcaatgcat ttnggggtga gctctgggtt 180
taggggcccc ntccatccct nagctaccct ggatctttgc ccacctnttc ctcagagccc 240
ccactgaggg gccgtagcct atctaggggt ntggnaggag cagattggtt cctaactgtt 300

3896

ttccctngtn ttg

314

<210> 4262

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

3897

<220>
 <221> misc feature
 <222> (297)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (328)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (357)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (360)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (371)
 <223> n equals a,t,g, or c

<400> 4262
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 cactctgtan gcccatgggt cccttactan anangttgag tgaatttgcc ttcagttaac 120
 atgggacctt ctgttttagct tcctcttgct tcccaaanat tttaancatt ttgtaaatgt 180
 ataaactcac ctctggtaac antggccan acctgctttg tgctaaaaac atgggaaatt 240
 ttaagcagtc tttctcttgg aaatggatgc tattctattc tgctgcccct acttttnccg 300
 aaggcctctt ttaaaaaaaaa aatcccnca aaaggtttct ggcacccatt ttcttancn 360
 ggccaatttt nt 372

<210> 4263
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 4263
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 gaatccctgg gcaaagattt cctcactggt gttttggata acttggtgga acaaaatgta 120
 ctgaactgga aggaagagga aaaaaagaaa tattacgatg ctaaaactga agacaaagtt 180
 cgggtcatgg cagactctat gcaagagaag caacgtatgg caggacaaat gcttcttcaa 240
 acctttttta acatagacca aatatccccc aataaaaaag gtgataaatt gggtcacaga 300
 ggcagaaatc acaatttatg ttctgcaata tcctgcagct catccgaata tggaggctgg 360
 accacctgag tcaggagaat ctacagatgc cctcaagctt tgcctcatg aagaattcct 420
 gagactatgt aaagaaagag ctgaagagat ctatccaata aaggagagaa acaaccgcac 480
 acggctgggt ctcacatcat gcaatacaga gtttgacat ctgcctccga ggaattgagc 540
 tgactttgac atcacaggg 559

3898

<210> 4264
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

3899

<400> 4264
ttaaccgcga ctaagggcac aaagtntngn nctncaccag gtggaggccg ctccctagcaa 60
ctagtgggtc ccccggggnt gcaggggaatg gtcacgnggg gtcatgcagg atgtggtgga 120
gggacttcaa gnaataagta cgaagatgaa attaaccgcc gcacagctgc tgagaatgag 180
tttgtggtgc tgaagaagga tgtggatgct gcctacatga gcaagtggag ctggaggcca 240
aggtggatgc cctgaatgat gagatcaact tcctcaggac cctcaatgag acggagttga 300
cagagctgca gtcccagatc tccgacacat ctgtggtgct gtccatggac aacagtcgct 360
ccctggacct ggacggcatc atcgctgagg tcaaggcaca gtatgaggag atggccaaat 420
gcagccgggc tgaggctgaa gcctggtacc agaccaagtt tgagaccctc caggcccagg 480
ctgggaagca tngggacgac ctccggaata cccggaatga gatttcagag atgaaccggg 540
c 541

<210> 4265

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

3900

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

3901

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

<220>

3902

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 4265

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naggnggggn attccttgat taccactctc naaattaacc ctactaaag ggaacaaaan 60
ctggagctcc accgcggtgg cggccgctct agaactagt gatcccccg gctgcaagga 120
aattcggnac aattcccagg ncacagcaaa ggtcngtnaa acccccccn ccatccccag 180
ttatnngggg cccnggaat cctcctgttc cttnaatcag gctcngtttn cccctagcc 240
actacgggna gnctctgaga gtgccgcttt acttgcatc tgcaacaatt acntgtntcc 300
ttnagatcct ngggccaant tccctccctc tcccagctcc tggccctgg ggccagggcc 360
cctcttgctg tttttacctc tgtnccttgg ggcctactac ccaagnaagc acccgaangg 420
ggggangttt tggggattan aagaggaaac ctctct                                     455
```

<210> 4266

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<400> 4266

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cgcgccnccn cactaaaggg aacaaaagct ggagctccac cgcggtngcg gccgctctag 60
aactagtggg tccccgggc tgcaggaatt cggcagcagc gccattttta tcaaagttgt 120
aatttttaaa aagtcaccta aaactctggt tttaaaagat cctctgtatt gaaaacttct 180
gataatgtat gtcattatgt ccttactatt ccttaattgt agttttaaaa tattggtata 240
gtacttgaca gagtaaatac ttcactgtat t                                     271
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<210> 4267

<211> 355

<212> DNA

<213> Homo sapiens

3903

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 4267
gtcccaaagt gctgcgattn taggtaatga aagtatggga tgctcatgtg acagcagttt 60
gctcccaaga tgccagtga cttgtcngga agcttggtgc agacgatgta attgattaca 120
aatctggaag tgtggaagag cagttgaaat ccttaaaacc atttgatttt atccttgata 180
atgttggcgg atccactgaa acatgggctc cagattttct caanaaatgg tcaggagcca 240
cctatgtgac ttgtgtgact cctttcctcc tgaacatgga ccgatagggc atagcagatg 300
gcatgttgca nacaggagtc actgtagttc aaangcatta aagcatntct ggann 355

<210> 4268
<211> 338
<212> DNA

3904

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 4268

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gccgtcatct actctaccat ctttgcaggc acactcatca cagcgctaag ctgcgactga 60
ttttttacct gagtangcct anaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcgttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatectcttc aacaatatac tctccggaca atgaaccata 240
accaatacta ccaaataaat actcatcatt nataatcata atggctattn caataaaact 300
aaggaatagc cccttttcatt ctgaatcccn aaagttac 338
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<210> 4269

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

3905

<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3906

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 4269

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gaagctatcg ggcccatacc ccgaaaatgt tgggtataacc cttcccgtac taattaatcc 60
cctggcccaa cccgtcatct actctaccat ctttgcaggc acactcatca cagcggctaa 120
gctcgactg attttttacc tgagtaggcc tagtaaataa acatgctagc ttttattcca 180
gttctancca aaaaaataaa ccctcgttcn acagaagctg ccacnngtt atttctcac 240
gcaagcaanc gcatccanna tccttctaata ggctatcctc ttcaacaata tactctccgg 300
aacaatgaaa ccataaccaa tacnaccnat caatactcat cattggataa gcatnatggn 360
tattggcaat taaaactagg aatagccccc ctttcacttc tgantccan aagggtaccc 420
caaggnaccc cctgaaatcg ggctgcttct tctcacatga naaaaataac cccgctcan 479
```

<210> 4270

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

3907

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 4270

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cccacgcgtc cggacccacg cgtccgatca acaccctcct agccttacta ctaataatta 60
ttacattttg actaccacaa ctcaacgggt acatagaaaa atccaccctt tacgagtgcg 120
gcttcgaccc tatatccccc gcccgcgctc ctttctccat aaaattcttc ttagtagcta 180
ttaccttctt attatttgat ctagaaattg cctctctttt accctacca tgagccctac 240
aaacaactaa cctgccacta atagttagt catcctctt attaatcatc atcctagccc 300
taagtctggc ctatgagtga ctacaaaaag gattagactg aaccggataa aaaaagaana 360
agagangaag ananan 376

```

<210> 4271

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 4271

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gagtaaacad tgctcaccag atctctctac gttcagaagc attttttcat gcaatgacct 60
ctcaacacga gttgcaggac tacctcagga aaacttccca ggctgtaaaa atgcttcgag 120
ataaaaattgc acagattgat aaagtaatgt gtgaaggatc actccacatt ttaagactgg 180
cacttaccag aaataattgt gttaaagtat acaataagct gaagttaatg gccactgtac 240
accagactca gcctacagta caggtgttat tatctacttc tgaatttggt ggagcattgg 300
acttaatagc aacaacacaa gaggttctac agcaggaact tcagggcatt cacagtttcc 360
ggcatttggg atcacagctt tgtgaattag aaaaactgat agataaaatg atgattgcag 420
aattttctac ttattctcac agtgacttaa atagaccact ggaagatgac tgtcaagttt 480
anaaagagga aagactaata tctcttggat ttggctttaa aaccaanaaa gcttantttt 540
aa 542

```

<210> 4272

<211> 611

<212> DNA

3908

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 4272

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ggaagagcac ccgctctccc tgggtgacca ggtgaccccc atcatcgacc taatggccat 60
cagcaacgct cactttgcca agctgcgcga cttcatcact ctgcgccttc cacctggctt 120
ccccgtcaaa attgagattc cccttttcca cgtgctcaat gcccgcacat ccttcagcaa 180
cctgtgtggc tgtgatgagc ccctgagctc cgtgtgggtg ccggcccca gctctgctgt 240
cgccgcacatc gggaaccctt tcccgtgcga ggtggacccc accgtgtttg aagtgcccaa 300
cgggtacagc gtgctgggca tggagcgcaa cgagcccctn cgggacgagg acgatgacct 360
cctgcagttc gccatccagc agagcctgct tgaagcgggc actgaggcgg agcagggtggg 420
acttgcccag ggggtgggct ctggcctctg cagacacacn gcagaagtna cagctgtggg 480

```

3909

ctctggtggc tgcaggtgac cgtctgggaa ggccctgacc aacacccggn ccgntgcccg 540
gccttcttcc caggccacgg tttatgagga acagcttang cntggancgg ggcccttcag 600
gaaaagccct g 611

<210> 4273

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3910

<222> (190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

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<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

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<222> (307)

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<222> (324)

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<220>

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<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<400> 4273

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tattggtggc atcacagctc ccacagtaag acagtactac gcttanctca ccgncacaca 60
gtgcaagccc gtagnaacac aatgctgggt gtttggggtc attggtttcc tgggnngtcc 120
attgtttgca taaaatttgg acaagatctc ntgtctaana cccaaatact ctatgtngtg 180
ctttggcttn nttgcgtggc tttgnaccac tttcctctgt tcttttacgg catgnnttgg 240
tatgcagaac actatgggtg cactgggnaa aagacctgac ttcggaagtg tgaaagatgg 300
gcacctnttg gttcccagtg gatncttctt ggnccatcctt aggtnaaggga ga 352
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3911

<210> 4274
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<400> 4274
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accgagtgcg gaaaatccta ttcacacaaa tatggcctca ttacccatca gagaattcac 120
acaggagaga aaccttatga gtgcaatgaa tgtggaaaag ccttcaccac aaagtcagta 180
ctcaatgtac atcaaagaac gcatacagga gagaggccgt atggatgcag tgattgtgag 240
aaagccttct cccacttatc aaaccttgtc aaacataaga aaatgcacac aagaganatg 300
ggtagaatca gtcaagttga aaactcctgt aatngagagt cacagctcct tccttataag 360
tgaactcatg cagaagaaaa ccctactagt gccgtgacta tggaaaa 407

<210> 4275
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
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<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 4275
gntcgaaant aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgncggccg 60

3912

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ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggtaag tggcgcgatt 120
cgggcagncc ccgatggaac ctcttggtcc tgtgagggtg cacagggaca agagaagatg 180
atgatgatgg gaccaaagga agaggaacag tcttgtagt atgagaccag gctacctggg 240
aaccactcta ccagtcaaga gatcttccgc caacgcttca ggcattctccg ctaccaggag 300
actcctggtc ccggggaggc cttgagccaa ctacgagtac tctgctgtga gtggctgagg 360
ccagagaaac acacgaagga gcagatcctg gagttcctgg tgctggaaca attcttgacc 420
atcctgcctg aggagctcca atcctgggtg cggggacatc accctaagag tggagaggag 480
gctgtgactg tgctggagga tttagagaaa ggacttgaac cagagccgca gtcccagg 538

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<210> 4276

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<400> 4276

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gcaggggaaa aaccctatgt gtgtgatagg tgtgggaagg ccttcaggaa acagctcang 60
cctcacagtg cataaaaagga tccacacagg tgaaacccca ctatgaatgt gatgagtgtg 120
ggaaggcata catctcacac tcaagtctta ttcaatcata aaagtgtcca ccaggggaaa 180
gcagccctat tattgttgaa ttgttgggaa atccttccaa ttatgaatca ntcccttgaa 240
ccagcacaaa agggatcccc cncgtgggaaa naaancctc cnaattttaa gaagtttggg 300

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3913

<210> 4277
<211> 405
<212> DNA
<213> Homo sapiens

<220>
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<222> (335)
<223> n equals a,t,g, or c

<220>
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<222> (347)
<223> n equals a,t,g, or c

<220>
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<222> (377)
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<220>
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<222> (383)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<400> 4277
gccagggcct gagggggagg ttctctgaga actccggccc caggctggcc tgagctgccg 60
ggcagaggcc tgtgctggca acaggcattg ccgggcctgc agctcagagg gtcactggga 120
ctgagggcga tctgtggcct gaaaagcaaa tgcacagtta gtgcagctcc tgaccaggcc 180
ttcaggggtg acagagggag gatcggtcat ggcagccaca cctgggcctg gccttgctcc 240
gggacctgcc agaggagctg gcctggctct gtgcctgcct gcctccagga gcaggacggt 300
ggctgggagg gtagtgactg gggacacagg tgcangtgtt agtgcangac cggaagggtg 360
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<210> 4278
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

3914

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4278

Asn Lys Lys Lys Asp Asn His Leu Leu Xaa Pro Val Gln Glu Asn Ala
 1 5 10 15

Asn Ser Gly Tyr Tyr Glu Ala His Pro Val Thr Asn Gly Ile Glu Glu
 20 25 30

Pro Leu Glu Glu Ser Ser His Glu Pro Glu Pro Glu Pro Glu Ser Glu
 35 40 45

Thr Lys Thr Glu Glu Leu Lys Pro Gln Val Glu Glu Lys Asn Leu Glu
 50 55 60

Glu Leu Glu Glu Lys Ser Thr Thr Pro Pro Pro Ala Glu Pro Val Ser
 65 70 75 80

Leu Pro Gln Glu Pro Pro Lys Pro Arg Val Xaa Ala Lys Pro Glu Val
 85 90 95

Gln Ser Gln Pro Pro Arg Val Arg Gly Thr Thr Thr
 100 105

<210> 4279

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4279

Gly Phe Pro Val Leu Phe His Ser Ala Phe Met Ser Gln Leu Pro Leu
 1 5 10 15

Ile Pro Ser Lys Leu Ser Gln Val Glu Trp Pro Asn Pro Gly Met Met
 20 25 30

Tyr Tyr Phe Leu Gln Ser Cys Asp Cys Leu Gly Gly Pro Phe Ala Asn
 35 40 45

Phe Pro Arg Ala His Val Cys Leu Val Val Lys
 50 55

<210> 4280

<211> 147

<212> PRT

<213> Homo sapiens

3915

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4280

Arg	Glu	Phe	Asp	Gly	Lys	Pro	Gly	Leu	Ala	Gly	Leu	Ala	Thr	Pro	Pro
1				5				10						15	

Pro	Pro	Pro	Pro	His	Gln	Arg	His	Leu	His	Leu	His	Cys	Pro	Ala	Lys
			20					25					30		

Leu	Arg	Leu	Leu	Pro	Leu	Gln	Arg	Gln	Leu	Ala	Ser	Arg	His	Arg	Trp
		35				40						45			

Thr	Pro	Gly	Ser	Xaa	Ser	Asp	Val	Ala	Arg	Leu	Ser	Gly	Lys	Ser	Val
	50					55					60				

Leu	Pro	Leu	Pro	Ile	Ser	Met	Pro	Ser	Pro	Ser	Val	Ser	Pro	Glu	Ser
65					70					75				80	

Ala	Val	Tyr	Leu	Ile	Gly	Pro	Val	Met	Leu	Thr	Phe	Xaa	Ala	Thr	Ala
				85					90					95	

Phe	Ser	Ser	Lys	Glu	Phe	Ser	Ser	His	His	Gly	Val	Ser	Gly	Pro	Leu
			100					105					110		

Ala	Ser	Trp	Ser	Lys	Val	Gly	Leu	Gly	Gly	Arg	Tyr	Gly	Ser	Gly	Met
		115					120					125			

Cys	Tyr	Arg	Ser	Tyr	Gln	Xaa	Trp	Gly	Pro	Leu	Ser	Val	Ser	Gly	Ser
	130					135					140				

Glu	Arg	Val
145		

<210> 4281

<211> 53

3916

<212> PRT

<213> Homo sapiens

<400> 4281

Pro Leu Trp Lys Thr Val Tyr Lys Thr Lys His Thr Val Phe Asn Ser
 1 5 10 15

Ile Gly Ser Ile Ile Ile Val Tyr Tyr Arg Xaa Pro Leu Trp Lys Thr
 20 25 30

Val Tyr Lys Thr Lys His Thr Val Phe Asn Ser Ile Gly Ser Ile Ile
 35 40 45

Ile Val Tyr Tyr Arg
 50

<210> 4282

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4282

Ala Leu Ile Phe His Trp Gly Ser Ala Ile Thr Lys Asn Ser Ser Asp
 1 5 10 15

Ile Phe Gln Leu Pro Lys Trp Pro Gly Thr Phe Cys Phe Tyr Glu Asn
 20 25 30

Arg Phe Ile Leu Tyr Phe Pro Val Cys Leu Leu Cys Leu
 35 40 45

<210> 4283

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4283

Ile Ala Ser Gly Arg Pro Phe Phe Phe Leu Ile Tyr Met Asn Leu Gln
 1 5 10 15

Ile Ile Tyr Ile Asn Leu Leu Leu Cys Gly Asp Phe Gly Gln Glu Asp
 20 25 30

Cys Leu Arg Pro Gly Ile Gln Asp Gln Pro Gly Lys Gln Ser Glu Thr
 35 40 45

Leu Ser Leu Gln Lys Ile Lys Thr Lys Ile

3917

50

55

<210> 4284

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4284

Val Phe Gln His Ser His Cys Thr Ser Ala Gly Asn Leu Ser Ile Leu
 1 5 10 15

Tyr Arg Gln Ser Glu Leu Lys Ser Leu Met Ser Arg Asp Tyr Gly Leu
 20 25 30

Asn Lys Leu Val Cys Pro Ile Gly Gly Lys Lys Pro Arg Asn His Leu
 35 40 45

Leu Lys Arg Met Ile Cys His Ile Pro Leu Asp Phe His Phe Ala Leu
 50 55 60

Tyr

65

<210> 4285

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4285

His Arg Ile His Phe Thr Tyr Leu Thr Ser Thr Ile Ser Ser Asp Thr
 1 5 10 15

Phe Ser Met Lys Gln Thr Ile Ala Ile Phe Lys Ile Met Asn Leu Ser
 20 25 30

Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn Phe Ser Leu Phe
 35 40 45

Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile Cys Ser Gly Asn
 50 55 60

Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys Ile Phe Lys Glu

3918

65

70

75

80

Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe Val Val
 85 90

<210> 4286

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4286

Ala Glu Val Leu Leu Glu Ala Ile Arg Lys Gly Ile Gln Leu Arg Lys
 1 5 10 15

Val Glu Glu Gln Arg Glu Gln Glu Ala Lys His Glu Arg Ile Glu Asn
 20 25 30

Asp Val Ala Thr Ile Leu Ser Arg Arg Ile Ala Val Glu Tyr Ser Asp
 35 40 45

Ser Glu Asp Asp Ser Glu Phe Asp Glu Val Asp Trp Leu Glu
 50 55 60

<210> 4287

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4287

Cys Arg Leu Leu Arg Arg Thr Xaa Lys Leu Gly Phe Ser Gly Arg Met
 1 5 10 15

Thr Xaa Leu Arg Asp Pro Leu Gln Ala Arg Thr Lys Phe
 20 25

3919

<210> 4288

<211> 129

<212> PRT

<213> Homo sapiens

<400> 4288

Phe Leu Lys Glu Gly Ser Thr Pro Val Ser Asn Val Tyr Val Ser Met
 1 5 10 15

Cys Val Cys Ala Ile His Met Tyr Ser His Glu Asp Arg His Gly Gln
 20 25 30

Val Leu Leu Glu Glu His Ser Ser Val Thr Ser Arg Ala Thr Gly Pro
 35 40 45

Cys Arg Ala Val Val Tyr Ile Val Gln Leu Trp Arg Trp Asn Ser Ile
 50 55 60

Phe Thr Leu Phe Tyr Gly Ala Phe Arg Val Pro Gly Phe His Leu Arg
 65 70 75 80

Leu Ser Val Trp Met Ala Val Phe Arg Pro Pro Leu Thr Ser Leu Pro
 85 90 95

Ser Ile Leu Tyr Phe Gly Gly Leu Leu Ser Cys Tyr Lys Thr Phe Tyr
 100 105 110

Gln Val Lys His Arg Tyr His Leu Cys Phe His Ser His Trp Cys Lys
 115 120 125

Tyr

<210> 4289

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3920

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4289

Glu	Ser	Asp	Gly	Met	Ala	Leu	Ile	Thr	Leu	Arg	Lys	Asn	Leu	Tyr	Arg
1				5					10					15	

Leu	Ser	Asp	Phe	Gln	Met	His	Arg	Ala	Leu	Ala	Ala	Leu	Lys	Asn	Lys
			20					25					30		

Pro	Leu	Asn	His	Val	His	Lys	Val	Val	Lys	Glu	Arg	Leu	Cys	Pro	Trp
		35					40					45			

Leu	Cys	Ser	Arg	Gln	Pro	Glu	Pro	Phe	Gly	Val	Arg	Phe	His	His	Ala
	50					55					60				

His	Cys	Lys	Lys	Phe	His	Ser	Lys	Asn	Gly	Asn	Asp	Leu	His	Pro	Leu
65					70					75					80

Gly	Gly	Pro	Val	Phe	Ser	Gln	Val	Ser	Asp	Cys	Asp	Arg	Leu	Glu	Gln
			85						90					95	

Asn	Val	Lys	Asn	Glu	Glu	Ser	Gln	Met	Phe	Tyr	Arg	Arg	Leu	Ser	Asn
		100						105					110		

Leu	Thr	Ser	Ser	Glu	Glu	Val	Leu	Ser	Phe	Ile	Ser	Thr	Met	Glu	Thr
		115					120					125			

Leu	Pro	Asp	Thr	Met	Ala	Ala	Gly	Ala	Leu	Gln	Arg	Ile	Cys	Glu	Val
	130					135					140				

Glu	Lys	Lys	Asp	Gly	Asp	Gln	Gly	Leu	Pro	Lys	Xaa	Ile	Leu	Glu	Asn
145					150					155				160	

Ser	Ile	Phe	Gln	Ala	Leu	Cys	Phe	Gln	Phe	Glu	Lys	Glu	Pro	Ser	Gln
			165						170					175	

Leu	Ser	Asn	Thr	Ser	Leu	Val	Thr	Ala	Xaa	Gln	Ala	Leu	Ile	Leu	Leu
		180						185					190		

3921

His Val Asp Pro Gln Ser Ser Leu Leu Leu Asn Leu Val Ala Glu Cys
 195 200 205
 Xaa Asn Arg Leu Arg Lys Gly Gly Met Glu Val Arg Asn Leu Cys Ile
 210 215 220
 Leu Gly Glu Ser Leu Ile Thr Leu His Ser Ser Gly Cys Val Thr Leu
 225 230 235 240
 Glu Leu Ile Ile Asn Gln Leu Gln Gly Glu Lys Leu Glu Thr Phe Thr
 245 250 255
 Pro Glu Asp Ile Val Ala Leu Tyr Arg Ile Leu Gln Ala Cys Thr Glu
 260 265 270
 Lys Val Asp Glu His Gln Thr Phe Leu Asn Lys Ile Asn Asn Phe Xaa
 275 280 285
 Leu Ser Ile Val Ser Asn Leu Ser Pro Lys Leu Ile Xaa Gln Met Leu
 290 295 300
 Thr Ala Leu Val Val Leu Asp Gln Ser Gln Ala Phe Pro Leu Ile Ile
 305 310 315 320
 Lys Leu Gly Lys Ile Cys Arg Glu Ala Cys Pro Thr Phe His Leu Thr
 325 330 335
 Arg Ser Leu Gly Glu Ser Phe Glu Ala
 340 345

<210> 4290

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4290

Glu Ser Pro Phe His Thr Val Glu Arg Cys Arg Cys Gly Lys Pro Gln
 1 5 10 15

3922

Arg Trp Leu Pro Ile Leu Asn Pro Phe Ile Ser His Leu Ser Phe Phe
 20 25 30

Ser Pro Phe Cys Pro Asp Val Ala Met Val Gly Trp Val Arg Pro Glu
 35 40 45

Glu Thr Ala Ser Xaa Arg Gly Ser Ser Arg Ser Gly Gly Ser Ala Gly
 50 55 60

Ile Gly Ala His Arg Ser Glu Glu Trp Pro Met Xaa Leu Pro Ser Lys
 65 70 75 80

Cys Ala

<210> 4291

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4291

Leu Ser Ile Cys Ile Ile Asn Ile Ile Met Met Phe Phe Ser Cys Ser
 1 5 10 15

Phe Gln Gly Leu Ser His Leu Lys Lys Leu Leu Leu Thr Lys Leu Leu
 20 25 30

Thr Leu Phe Pro Leu Met Ile Gln Val Ser Val Pro Ala Leu Tyr Val
 35 40 45

Asn Tyr Gln Asn Ser Pro Ala Ser Glu His Asp Ile Tyr Asn Arg Arg
 50 55 60

Tyr Xaa Asn Lys Met Xaa Xaa Leu

3923

65

70

<210> 4292

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4292

His Ile Asn Asn Ile Lys Met Ala Ile Pro Phe Tyr Gly Val Thr Leu

1

5

10

15

Phe Leu Gly Ile Val Ser Lys Glu Ile Ile Leu Asn Ile Gly Lys Lys

20

25

30

Tyr Phe Tyr Asn Leu Gln Ser Val

35

40

<210> 4293

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4293

Ala Val Ala Leu Met Ala Pro Pro Ser Gly Met Ile Arg Val Thr Ala

1

5

10

15

Xaa Arg Gly Ser Phe Glu Trp Arg Pro Ala Gly Gly Asp Pro Asn Arg

20

25

30

Arg Ala Gly Arg Arg Pro Phe Ser Arg Glu Gly Pro Ile Trp Arg Lys

35

40

45

Ser Ser Arg Leu Val Lys Leu Gly Gly Arg

50

55

<210> 4294

<211> 39

<212> PRT

<213> Homo sapiens

3924

<400> 4294

Pro Tyr Arg Ser Ser Lys Asn Ser Met Pro Phe Arg Leu Ala His Tyr
 1 5 10 15
 Gln Lys His His Glu Ser Ile Leu Lys Thr Asn Tyr Leu Leu Gln Cys
 20 25 30
 Ile Ser Leu Val Leu Cys Val
 35

<210> 4295

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4295

Gly His Ile Phe Ser Leu Lys Ser Asp Ile Leu Ser Leu Leu Leu Ser
 1 5 10 15
 His Tyr Cys His Thr Phe Val Phe Phe Val Val Ile Val Trp Val Glu
 20 25 30
 Gln Leu Gln Glu Thr Leu Lys Pro Leu Asp Ile Lys Glu Ile Cys Leu
 35 40 45
 Leu Ile Phe Lys Ser Phe Leu Ser Lys Ser Trp Asp Thr His Gly Ser
 50 55 60
 Cys Leu Gly Asn Phe Pro Cys Cys Tyr Arg Ala Ala Thr Lys Trp Glu
 65 70 75 80
 Leu Thr Arg Arg Ala Val Tyr Thr Val Ser Leu Ala Thr Val Ala Xaa
 85 90 95
 Gly Ser Gly Ile Trp Leu Thr Gly
 100

<210> 4296

<211> 74

<212> PRT

<213> Homo sapiens

3925

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4296

Glu Val Asp Leu Gly Val Ser Trp Arg Val Ser Leu Leu Val Ala Gly
 1 5 10 15

Gly Arg Asp Ser Trp Leu Trp Gly Trp Arg Glu Val Val Gly Arg Lys
 20 25 30

Arg Gly Cys Val Pro Ala Thr Arg Ile Cys Ile Pro Glu Pro Lys Pro
 35 40 45

Gly Gly Ile Ser Leu Arg Gln His His Pro Arg Glu Ile Cys His Asn
 50 55 60

Leu Arg Phe Thr Ala Xaa Asp Ala Glu Ala
 65 70

<210> 4297

<211> 53

<212> PRT

<213> Homo sapiens

<400> 4297

Gln Val Gln Ala Ala Glu Gln Pro Lys Pro Leu Leu Cys Leu Trp Ser
 1 5 10 15

Arg His Ser Leu Phe Leu Cys Phe Leu Asp Glu Leu Ala Phe Thr Leu
 20 25 30

Leu Tyr Gly Leu Ala Pro Asn Ser Leu Leu Arg Glu Ile Gln Glu Pro
 35 40 45

Ser Phe Gly Ser Ala
 50

<210> 4298

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

3926

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4298

Ser	Asn	Val	Pro	Lys	Thr	Ser	Lys	Gln	Asn	Leu	Ile	Pro	Xaa	Lys	Tyr
1					5				10					15	

Ala	Leu	Phe	Leu	Leu	Ile	Cys	Phe	Val	Leu	Gln	Leu	Arg	Ser	Lys	Ser
			20						25					30	

Leu	Val	Lys	Leu	Tyr	Tyr	Leu	Pro	Lys	Tyr	Lys	Arg	Xaa	Leu	Glu	Leu
		35						40					45		

His	Cys	Asn	Ile	Asp	Val	Leu
	50					55

<210> 4299

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4299

Met	Gly	Gly	Leu	Ile	Ala	Leu	Ala	Arg	Glu	Ala	Ala	Gly	Lys	Glu	Asp
1					5				10					15	

Arg	Trp	His	Pro	Glu	Thr	Ala	Gln	Xaa	Trp	Asn	Arg	Thr	Pro	Xaa	Val
			20					25					30		

Gln	Gly	Leu	Lys	Phe	His	Gly	Leu	Val
		35					40	

<210> 4300

<211> 79

3927

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4300

Gln	Ala	Ala	Ala	Arg	Gly	His	Pro	His	Pro	Ala	Phe	Xaa	Arg	Gln	Phe
1				5					10					15	

Asp	Arg	Gly	Glu	Arg	Gly	Pro	Ala	Gly	Leu	Leu	Leu	Cys	Trp	Ala	Trp
			20					25						30	

Gln	Pro	Pro	Pro	Glu	Lys	Met	Glu	Phe	Arg	Thr	Ala	Ser	Ile	Arg	Leu
			35				40					45			

Phe	Gly	His	Leu	Thr	Arg	Ser	Ala	Thr	Glu	Thr	Val	Arg	Thr	Ser	Ser
			50			55					60				

Trp	Thr	Lys	Trp	Trp	Ala	Gly	Trp	Arg	Pro	Ala	Ala	Ala	Pro	Xaa
65						70				75				

<210> 4301

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

3928

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4301

Thr Ser Ser Leu Leu Gln Ala His Ser Leu Ile Glu Ser Leu Val Ile
 1 5 10 15

Asn Leu Leu Asn Ala Xaa Xaa Ala Ala Asn Leu Gly Lys Leu Leu Ser
 20 25 30

Trp Trp Gly His Cys Trp Ile Asn Asn Val Arg Tyr Glu Leu Ser Asp
 35 40 45

Ala Leu Thr Trp Ile Leu His Phe Lys Val Xaa Xaa Gly Ala Tyr Gly
 50 55 60

Gln Pro Thr
 65

<210> 4302

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4302

Pro Asp Gln Pro Tyr Glu Trp Leu Ser Tyr Lys Gln Val Ala Glu Leu
 1 5 10 15

Ser Glu Cys Ile Gly Ser Ala Leu Ile Gln Lys Gly Phe Lys Thr Ala
 20 25 30

Pro Asp Gln Phe Ile Gly Ile Phe Ala Gln Asn Arg Pro Glu Trp Val
 35 40 45

Ile Ile Glu Gln Gly Cys Phe Ala Tyr Ser Met Val Ile Val Pro Leu
 50 55 60

Tyr Asp Thr Leu Gly Asn Glu Ala Ile Thr Tyr Ile Val Asn Lys Ala
 65 70 75 80

Glu Leu Ser Leu Val Phe Val Asp Lys Pro Glu Lys Ala Lys Leu Leu
 85 90 95

Leu Glu Gly Val Glu Asn Lys Leu Ile Pro Gly Leu Lys Ile Ile Val
 100 105 110

Val Met Asp Ala Tyr Gly Ser Asn Trp Trp Asn Glu Ala Arg Gly Val

3929

115 120 125
 Gly Trp Lys Ser Pro Ala
 130

 <210> 4303
 <211> 355
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (347)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4303
 Cys Ile Ser Leu Xaa Pro Asn Ile Ser Leu Arg His Leu Trp Pro Gln
 1 5 10 15

 Arg Met Cys Pro Ser Gly Val Val Met Ile Thr Trp Gly Met Ser Arg
 20 25 30

 His Pro Gln Val Leu Gln Ala Thr Gln Glu Thr Leu Gln Arg His Gly
 35 40 45

 Ala Gly Ala Gly Gly Thr Arg Asn Ile Ser Gly Thr Ser Lys Phe His
 50 55 60

 Val Glu Leu Glu Gln Glu Leu Ala Glu Leu His Gln Lys Asp Ser Ala
 65 70 75 80

 Leu Leu Phe Ser Ser Cys Phe Val Ala Asn Asp Ser Thr Leu Phe Thr
 85 90 95

 Leu Ala Lys Ile Leu Pro Gly Cys Glu Ile Tyr Ser Asp Ala Gly Asn
 100 105 110

 His Ala Ser Met Ile Gln Gly Ile Arg Asn Ser Gly Ala Ala Lys Phe
 115 120 125

 Val Phe Arg His Asn Asp Pro Asp His Leu Lys Lys Leu Leu Glu Lys
 130 135 140

 Ser Asn Pro Lys Ile Pro Lys Ile Val Ala Phe Glu Thr Val His Ser

3930

145 150 155 160
 Met Asp Gly Ala Ile Cys Pro Leu Glu Glu Leu Cys Asp Val Ser His
 165 170 175
 Gln Tyr Gly Ala Leu Thr Phe Val Asp Glu Val His Ala Val Gly Leu
 180 185 190
 Tyr Gly Ser Arg Gly Ala Gly Ile Gly Glu Arg Asp Gly Ile Met His
 195 200 205
 Lys Ile Asp Ile Ile Ser Gly Thr Leu Gly Lys Ala Phe Gly Cys Val
 210 215 220
 Gly Gly Tyr Ile Ala Ser Thr Arg Asp Leu Val Asp Met Val Arg Ser
 225 230 235 240
 Tyr Ala Ala Gly Phe Ile Phe Thr Thr Ser Leu Pro Pro Met Val Leu
 245 250 255
 Ser Gly Ala Leu Glu Ser Val Arg Leu Leu Lys Gly Glu Glu Gly Gln
 260 265 270
 Ala Leu Arg Arg Ala His Gln Arg Asn Val Lys His Met Arg His Tyr
 275 280 285
 Ser Trp Thr Gly Ala Phe Leu Ser Ser Pro Ala Pro Ala Thr Ser Ser
 290 295 300
 Pro Ser Gly Trp Ala Met Gln His Ser Thr Ala Ser Ser Val Ile Ser
 305 310 315 320
 Cys Ser Pro Ser Met Ala Ser Met Cys Arg Pro Ser Thr Thr Gln Leu
 325 330 335
 Ser Pro Gly Val Lys Ser Ser Cys Ala Trp Xaa Pro Pro Pro Thr Thr
 340 345 350
 Ala Leu Arg
 355

<210> 4304

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

3931

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4304

Thr	Lys	Glu	Lys	Lys	Asn	Arg	Gln	Gly	Asn	Ser	Leu	Asp	Met	Ala	Ser
1				5					10					15	

Glu	Ile	His	Met	Thr	Gly	Pro	Met	Cys	Leu	Ile	Glu	Asn	Thr	Asn	Gly
			20					25					30		

Arg	Leu	Met	Ala	Asn	Pro	Glu	Ala	Leu	Lys	Ile	Leu	Ser	Ala	Ile	Thr
		35					40					45			

Gln	Pro	Met	Val	Val	Val	Ala	Ile	Val	Gly	Leu	Tyr	Arg	Thr	Gly	Lys
	50					55					60				

Ser	Tyr	Leu	Met	Asn	Lys	Leu	Ala	Gly	Lys	Lys	Lys	Gly	Phe	Ser	Leu
65					70					75					80

Gly	Ser	Thr	Val	Gln	Ser	His	Thr	Lys	Gly	Xaa	Trp	Met	Trp	Cys	Val
				85					90					95	

Pro	His	Pro	Lys	Lys	Pro	Gly	His	Ile	Leu	Val	Leu	Leu	Asp	Thr	Glu
			100					105					110		

Gly	Leu	Gly	Asp	Val	Glu	Lys	Gly	Asp	Asn	Gln	Asn	Asp	Ser	Trp	Ile
	115						120					125			

Phe	Ala	Leu	Ala	Val	Leu	Leu	Xaa	Ser	Xaa	Phe	Xaa	Tyr	Asn	Ser	Ile
	130					135					140				

Gly	Thr	Ile	Asn	Gln	Gln	Ala	Met	Asp	Gln	Leu	His	Tyr	Gln	Ser	Arg
145					150					155					160

Ser

3932

<210> 4305
 <211> 109
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4305
 Val Leu His Ser Val Leu Gly Gly Trp Leu Gly Pro Gly Ala Val Ala
 1 5 10 15
 Ser Gln Gly Ala Ala Ser Pro Trp Gln Ala Ser Leu Pro Trp Ala Ala
 20 25 30
 Leu Pro Gln Thr Pro Asp His Pro Leu Gly Pro Val Pro His Gln Ser
 35 40 45
 Pro Ser Ser Cys Leu Trp Gly Ser His His Gly Val Arg Ala Val His
 50 55 60
 Ser Ala Ser Gln Cys Val Ser Pro Gly Thr Trp Glu Gly Arg Glu His
 65 70 75 80
 Trp Gly Leu Gly Pro Gln Leu Arg Gly Cys Leu Ala Leu Pro Ser Asp
 85 90 95
 Xaa Ala Tyr Pro Glu Phe Gly Gly Tyr Phe Pro Leu Ala
 100 105

<210> 4306
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 4306
 Leu Phe Leu Ser Ser Pro Gly Leu Glu Arg Val Thr Met Leu Phe Leu
 1 5 10 15
 Gly Leu His Asn Val Arg Gln Thr Ser Met Phe Pro Arg Asp Pro Lys
 20 25 30
 Arg Leu Thr Pro
 35

3933

<210> 4307

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4307

Gly Gln Pro Glu Val Thr Phe Ile Ala Ile Leu Val Leu Val Ser Phe
 1 5 10 15

Phe Thr Ala Ala Cys Phe Ile Ile Lys Val Phe Ile Thr Cys Ile Leu
 20 25 30

Cys Arg Pro Pro Val Ser Ser Cys Asp Leu Glu Cys Leu Thr Ser Trp
 35 40 45

Glu Cys Ser Pro Val Gly Leu Ser Leu Ile Leu Leu His Pro Leu Ile
 50 55 60

Gln Asp Gly Ser Phe Ser Gly Phe Gln Thr Thr Pro Gly His Val Phe
 65 70 75 80

Pro Pro Pro Phe Leu Gln Gln Xaa Pro
 85

<210> 4308

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4308

Met Phe Leu Ile Val Phe Cys Phe Leu Gln Ser Leu Ser Ala Met Pro
 1 5 10 15

Ile Val Leu Ile Phe Tyr Arg Ser Ser Leu Lys Ile Leu Asn Arg Gly
 20 25 30

Ile Gly Ser Gly Gln Ser Glu Trp Leu Glu Phe Trp Leu Ser Lys Lys
 35 40 45

Asn Phe Ile Leu His Lys His Val Val Arg Ser Phe Cys Ala Tyr Ala
 50 55 60

3934

Ala Trp Ile Gly Cys
65

<210> 4309

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4309

Ser Phe Leu Phe His Tyr Phe Cys Tyr Phe Lys Cys Ile Ser Ser Gly
1 5 10 15

Ile Leu Phe Gly Ala Ile Pro Thr Lys Ser Gly Thr Arg Met Cys Leu
20 25 30

Arg Ala Val Thr Phe Gln His Asp Gly Phe Gly Leu Val Trp Phe Cys
35 40 45

Val Leu Phe Ile Cys Ser Phe Phe Cys Cys Asn Arg Lys Trp Leu Gly
50 55 60

Ser Leu Arg Trp Tyr Val Thr Asn Ser Phe
65 70

<210> 4310

<211> 171

<212> PRT

<213> Homo sapiens

<400> 4310

Met Leu Ser Pro Pro Arg Thr Thr Thr Gly Ser Met Thr Ser Trp Gly
1 5 10 15

Thr Cys Gly Ser Gly Gln His His Arg Thr Arg Leu Leu Ser Arg Thr
20 25 30

Cys Ala Ser Ser Gly Gly His Pro Gly Ser Thr Gln Leu Met Ala Leu
35 40 45

Pro Ile Thr Gly Pro Gly Ser Pro Pro Gly Trp Ala Thr Leu Gln Ile
50 55 60

Gln Pro Gln Thr Thr Ser Val Ser Ala Val Leu Gln Thr Gln Ala Gly
65 70 75 80

Arg Gln Gly Ser Cys Lys Gln Pro Gly Gly Asp Lys Glu Lys Ser Leu
85 90 95

3935

Leu Gly Ser Leu Ser Phe Pro Gly His Val Ala Asn Ser Ala Ile Pro
 100 105 110
 Ser Ser Arg Ala Ser Ala Ser Gly Lys Asn Phe Pro Phe Pro Val Ser
 115 120 125
 His Pro Ser Val Ala Gly Ala Ser His Gln Gly Arg Arg Gly Leu Ser
 130 135 140
 Leu Leu Cys Phe Gly Glu Gly Ala Gln Cys Val Leu Thr Met Ala Gly
 145 150 155 160
 Gly Gln Val Phe Leu Leu Glu Ala Lys Tyr Tyr
 165 170

<210> 4311

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4311

Ser Ser His Leu Ser Leu Asn Glu Ala Val Val Ile Ser Gly Arg Lys
 1 5 10 15
 Leu Ala Gln Gln Ile Lys Gln Glu Val Arg Gln Xaa Val Glu Asp Gly
 20 25 30
 Val Gly Ser Arg Gln Gln Thr Ala Thr Pro Glu Cys
 35 40

<210> 4312

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4312

Arg Phe Lys Ser Arg Leu Ser Ile Leu Leu Ser Ile Leu Phe His Phe
 1 5 10 15
 Lys Lys Lys Gly Phe Gly Ile Cys Gln Pro Leu Leu Ser Leu Leu Tyr
 20 25 30

3936

Lys Ala Thr Ala Leu Val Leu Asp Ile Met Pro Gly Leu Ile Ser Gln
 35 40 45

Thr Ser Gly Leu Asn Gln Val His Ala Trp Leu Leu Lys Lys Leu Met
 50 55 60

Leu Ile Pro Lys Ser Ala Gln Ser Gln Pro
 65 70

<210> 4313

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4313

Ala Gln Val Asp Phe Arg Arg Thr Pro Ile Asp Ser Thr Ala Ala Pro
 1 5 10 15

Gly Ala Gln Thr Pro Ala Ala Arg Ser Lys Ala Arg Ser Cys Cys Ser
 20 25 30

His Val Gly Pro Gln Pro Pro His Ser Gly Pro Ala His Gly Xaa Pro
 35 40 45

Pro Ala Ser Cys Gln Gln Gly Leu Gly Asn Phe Ser Pro Gly Cys Arg
 50 55 60

Ala Leu Ser Arg Trp Pro Cys Ser Trp Ser Ser Leu Gln Ser Pro Leu
 65 70 75 80

Gln Ser Thr Thr Ser Gly Ala Arg Arg Ser Arg Xaa Trp Glu Ser Trp
 85 90 95

Trp Gly Thr Asp Trp Lys Val
 100

3937

<210> 4314

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4314

Pro	Arg	Pro	Arg	Gly	Ala	Gly	Ala	Met	Val	Arg	Gly	Arg	Xaa	Phe	Arg
1				5					10					15	

Leu	Ser	Val	Arg	Asp	Val	Arg	Phe	Pro	Thr	Ser	Leu	Gly	Gly	His	Gly
			20					25					30		

Ala	Asp	Ala	Met	His	Thr	Asp	Pro	Asp	Tyr	Ser	Ala	Ala	Tyr	Val	Val
		35					40					45			

Ile	Glu	Thr	Asp	Ala	Glu	Asp	Gly	Ile	Lys	Gly	Cys	Gly	Ile	Thr	Phe
	50					55					60				

Thr	Leu	Gly	Lys	Gly	Thr	Xaa	Val	Val	Val	Cys	Xaa	Val	Asn	Ala	Leu
65					70					75					80

Ala	His	His	Val	Leu	Asn	Lys	Asp	Leu	Lys	Asp	Ile	Val	Gly	Asp	Phe
				85					90					95	

Arg	Gly	Phe	Tyr	Arg	Gln	Leu	Thr	Ser	Asp	Gly	Gln	Leu	Arg	Trp	Ile
		100						105					110		

Gly	Pro	Glu	Lys	Gly	Val	Val	His	Leu	Ala	Thr	Xaa	Pro	Ser
	115						120					125	

3938

<210> 4315

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4315

Trp Ile Lys Asp Leu Asn Val Arg Pro Glu Ser Met Lys Leu Leu Glu
 1 5 10 15

Glu Asn Ile Trp Glu Thr Leu Gln Tyr Pro Gly Leu Gly Glu Asp Phe
 20 25 30

Met Glu Lys Thr Ser Lys Ala
 35

<210> 4316

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4316

Ala Pro Ala Gly Leu Arg Arg Ser Pro Trp Arg Cys Gly Ala Ile Gly
 1 5 10 15

Gly Asp Gly Arg Gly Arg Gly Ala Ser Thr Val Ser His Pro Pro Leu
 20 25 30

Ala Thr Leu Ile Phe Leu Leu His Leu Gly Pro Gly Ala Ser Ser Thr
 35 40 45

Thr Gln Ala Gly Cys Phe Lys Lys Asn Cys Phe Leu Lys Cys Leu Ser
 50 55 60

Leu Lys Glu Ile Ser Leu Thr Leu Glu Val Xaa Gly Ala Ser Ser Gln
 65 70 75 80

Tyr Thr Ser Cys

<210> 4317

<211> 209

3939

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4317

Trp	Xaa	Cys	Ile	Leu	Asn	Ile	Leu	Lys	Gly	Tyr	Asn	Phe	Ser	Arg	Glu
1				5					10					15	

Ser	Val	Glu	Ser	Pro	Glu	Gln	Lys	Gly	Leu	Thr	Tyr	His	Arg	Ile	Val
		20						25					30		

Glu	Ala	Phe	Arg	Phe	Ala	Tyr	Ala	Lys	Arg	Thr	Leu	Leu	Gly	Asp	Pro
		35					40					45			

Lys	Phe	Val	Asp	Val	Thr	Glu	Val	Val	Arg	Asn	Met	Thr	Ser	Glu	Phe
	50					55					60				

Phe	Ala	Ala	Gln	Leu	Arg	Ala	Gln	Ile	Ser	Asp	Asp	Thr	Thr	His	Pro
65					70					75					80

Ile	Ser	Tyr	Tyr	Lys	Pro	Glu	Phe	Tyr	Thr	Pro	Asp	Asp	Gly	Gly	Thr
				85					90					95	

Xaa	His	Leu	Ser	Val	Val	Ala	Xaa	Asp	Gly	Ser	Ala	Val	Ser	Ala	Thr
		100						105					110		

Ser	Thr	Ile	Asn	Leu	Tyr	Phe	Gly	Ser	Lys	Val	Arg	Ser	Pro	Val	Ser
		115					120					125			

Gly	Ile	Leu	Phe	Asn	Asn	Glu	Met	Asp	Asp	Phe	Ser	Ser	Pro	Ser	Ile
	130					135					140				

Thr	Asn	Glu	Phe	Gly	Val	Pro	Pro	His	Leu	Pro	Ile	Ser	Ser	Ser	Gln
145					150					155					160

Gly	Ser	Ser	Arg	Ser	Arg	Pro	Cys	Ala	Arg	Arg	Ser	Trp	Trp	Ala	Arg
				165					170					175	

3940

Thr Ala Arg Ser Gly Trp Trp Trp Glu Leu Leu Gly Ala His Arg Ser
 180 185 190

Pro Arg Pro Leu His Trp Pro Ser Ser Thr Thr Ser Gly Ser Ala Met
 195 200 205

Thr

<210> 4318

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4318

Met Phe Asn Glu Leu Glu Asn Asp Ser Trp Val Val Asn Ile Val Asn
 1 5 10 15

Val Asp Glu Leu Phe Ser Phe Ala Glu Ser Ser Tyr Phe Val Gly Gly
 20 25 30

Phe Asn Ser Ala Trp Gln Phe Ala Ala Phe Leu Val Val Leu Leu
 35 40 45

<210> 4319

<211> 297

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4319

Pro Leu Pro Pro Gln Leu Gln Thr Pro Pro Arg Ser Asn Ser Val Phe
 1 5 10 15

Ala Val Asn Gln Ala Val Ser Pro Asn Phe Ser Gln Gly Ser Ala Ile
 20 25 30

3941

Ile Ile Ala Ser Pro Val Gln Pro Val Leu Gln Gly Met Val Gly Met
 35 40 45
 Ile Pro Val Ser Val Val Gly Gln Asn Gly Asn Asn Phe Ser Thr Pro
 50 55 60
 Pro Arg Gln Val Leu His Met Pro Leu Thr Ala Pro Val Cys Asn Arg
 65 70 75 80
 Ser Ile Pro Gln Phe Pro Val Pro Pro Lys Ser Gln Lys Ala Gln Gly
 85 90 95
 Leu Arg Asn Lys Pro Cys Ile Gly Xaa Gln Val Asn Asn Leu Val Asp
 100 105 110
 Ser Ser Gly His Ser Val Gly Cys His Ala Gln Lys Thr Glu Val Ser
 115 120 125
 Asp Lys Ser Ile Ala Thr Asp Leu Gly Lys Lys Ser Glu Glu Thr Thr
 130 135 140
 Val Pro Phe Pro Glu Glu Ser Ile Val Pro Ala Ala Lys Pro Cys His
 145 150 155 160
 Arg Arg Val Leu Cys Phe Asp Ser Thr Thr Ala Pro Val Ala Asn Thr
 165 170 175
 Gln Gly Pro Asn His Lys Xaa Val Ser Gln Asn Lys Glu Arg Asn Ala
 180 185 190
 Val Ser Phe Pro Asn Leu Asp Ser Pro Asn Val Ser Ser Thr Leu Lys
 195 200 205
 Pro Pro Ser Asn Asn Ala Ile Lys Arg Glu Lys Glu Lys Pro Pro Leu
 210 215 220
 Pro Lys Ile Leu Ser Lys Ser Glu Ser Ala Ile Ser Arg His Thr Thr
 225 230 235 240
 Ile Arg Glu Thr Gln Ser Glu Lys Lys Val Ser Pro Thr Glu Ile Val
 245 250 255
 Leu Glu Ser Phe His Lys Ala Thr Ala Asn Lys Glu Asn Glu Leu Cys
 260 265 270
 Ser Asp Val Gly Lys Thr Glu Lys Ser Arg Lys Phe Lys Thr Ile Tyr
 275 280 285
 Trp Ala Ala Lys Trp Gly Phe Ala Lys
 290 295

3942

<210> 4320
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4320
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Glu Ser Phe Ala
1 5 10 15
Val Pro Asn Leu Trp Lys Ser Glu Asp Ile Thr Gln Ile Val Ala Asn
20 25 30
Tyr Gly Leu Ile Cys Xaa Thr Arg Ala Gly Asn Asp Ala Gln Lys Phe
35 40 45
Ile Tyr Glu Ser Asp Val Leu Trp Lys His Arg Ser Asn Ile His Val
50 55 60
Val Asn Glu Trp Xaa Ala Asn Asp Ile Ser Ser Thr Lys Ile Arg Arg
65 70 75 80
Ala Leu Arg Arg Gly Gln Ser Ile Arg Tyr Leu Val Pro Asp Leu Val
85 90 95
Gln Glu Tyr Ile Glu Lys His Asn Leu Tyr Ser Ser Glu Ser Glu Asp
100 105 110
Arg Asn Ala Gly Val Ile Leu Ala Pro Leu Gln Arg Asn Thr Ala Glu
115 120 125
Ala Lys Thr
130

3943

<210> 4321

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4321

Asp His Pro Arg Thr Ile Ser Ser Arg Ile Leu Gln Trp Leu Asp Glu
 1 5 10 15

Glu Leu Pro Asp Leu Ser Val Ser Arg Arg Ser Ser His Leu His Trp
 20 25 30

Gly Ile Pro Val Pro Gly Asp Asp Ser Gln Thr Ile Tyr Val Trp Leu
 35 40 45

Asp Ala Leu Val Asn Tyr Leu Thr Val Ile Gly Tyr Pro Asn Ala Glu
 50 55 60

Phe Lys Ser Trp Trp Pro Ala Thr Leu Ile Ser
 65 70 75

<210> 4322

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4322

Ser Met Trp Gly Lys Glu Arg Ser Asp Cys Tyr Cys Val Cys Val Glu
 1 5 10 15

Lys Glu Asp Ile Arg Asn Ser Ile Leu Ile Cys Thr Lys Lys Asn Cys
 20 25 30

Phe Cys Phe Glu Met Leu Leu Ala Tyr Asn Phe Ser Pro Asn Ser Val
 35 40 45

Leu Thr Glu Thr Cys Ala Val Met Asp Gln Ser Leu Met Asp Leu Gly
 50 55 60

3944

Leu Cys Arg Met Cys Leu Val Asn Asn Met Phe Gly Arg Arg Xaa Ala
 65 70 75 80

Leu Gly Arg Ser His Arg Pro Phe Xaa His Ser Pro Val
 85 90

<210> 4323

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4323

Pro Ala Gly Pro Gly Gln Lys Pro Asp Pro Gly Lys Leu Pro Ala Ala
 1 5 10 15

Gly Val Leu Arg Ile Xaa Arg Gly Ser Ser Gly Leu Trp Lys Lys Arg
 20 25 30

Arg Ala Thr Asp Phe Gly Arg Gly Arg Ala Gly Leu Ser Ala Ala Met
 35 40 45

Ser Ala Lys Ala Ile Ser Glu Gln Thr Gly Lys Glu Leu Leu Tyr Lys
 50 55 60

Phe Ile Cys Thr Thr Ser Ala Ile Gln Asn Arg Phe Lys Tyr Ala Arg
 65 70 75 80

Val Thr Pro Asp Thr Asp Trp Ala Arg Leu Leu Gln Asp His Pro Trp
 85 90 95

Leu Leu Ser Gln Asn Leu Val Val Lys Pro Asp Gln Leu Asp Gln Thr
 100 105 110

Ser Trp Xaa Asn Leu Val Phe Val Gly Val Gln Pro His Ser Gly Trp
 115 120 125

Gly Gln Val Leu Gly
 130

3945

<210> 4324

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4324

Leu	Glu	Arg	Xaa	Gly	Ala	Gly	Gly	Arg	Asp	Phe	Trp	Val	Pro	Val	Cys
1				5					10					15	

Cys	Arg	Gly	Leu	His	Val	Ile	Ser	Met	Glu	Lys	Ala	Val	Tyr	Ala	Val
			20					25					30		

Thr	Gln	Ser	Leu	Val	Arg	Gly	Gln	Ala	Pro	Gly	Gly	Gly	Gly	Ser	Ser
			35				40					45			

Cys	Gly	Ser	His	Ser	Pro	Arg	Lys	Pro	Pro	Leu	Pro	Ser	Val	Ser	Gln
	50					55					60				

Ile	Asp	Arg	Glu	Ser	Arg	Asp	Ser	Asp	Arg	Gln	Val	Thr	Ser	Gln	Ile
65					70					75					80

Glu	Ser	Ile	Phe	Val
				85

<210> 4325

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4325

Pro	Pro	Leu	Thr	Leu	Asp	Ser	Asn	Pro	Val	Val	Ile	Leu	Gly	Trp	Asp
1				5					10					15	

Leu	Gly	Ala	Cys	Arg	Trp	Leu	Arg	Ser	Gln	Pro	Leu	Val	Ile	Arg	Ala
			20					25					30		

3946

Thr Ser Leu Ala Leu Gly Ala Leu Ala Pro Ala Glu Pro Leu Val His
 35 40 45

Arg Thr Ala Trp Glu Pro Gly Arg Gly Leu Trp Gln Pro Pro Arg Ala
 50 55 60

Glu Val Gln Thr Leu Phe Arg Leu Thr Gln Val His Thr Trp Ile Gly
 65 70 75 80

Leu Gly Val Glu Ala Trp Phe Xaa
 85

<210> 4326

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4326

Val Phe Gln Gly Ile Ser Gln Arg Gln Ser Val Gln Gln Trp Asp Ile
 1 5 10 15

Asn Ala Tyr Leu His Phe Pro Thr Ala Ile Tyr Ile Lys Cys Tyr Ser
 20 25 30

Ile Gln Arg Met Pro Phe Ile Pro Thr Leu Lys His Arg Ser Leu Ser
 35 40 45

Asn Lys Asn Gln Ile Val Cys His Ser Asn Tyr Asn Cys Ser Tyr Phe
 50 55 60

Cys Met Val Arg Val Arg Cys
 65 70

<210> 4327

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4327

Asn Phe Gly Gln Val Phe Val Tyr Gln Tyr Phe Val Leu Leu Gly Asn
 1 5 10 15

Ile Leu Phe Phe Ser Tyr Leu Cys Gln Ile Ile Ile Ile Lys Gly Thr
 20 25 30

Ala Glu Asn Ile Pro Cys Phe Tyr Ile Gly Ser His Leu Tyr Leu Gly
 35 40 45

3947

Gly Thr Leu Ser Ile Tyr Ile Leu Phe Val
 50 55

<210> 4328

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4328

His Arg Lys Lys His Phe Leu Lys Pro Thr Val Ser Asp Gln Trp Gly
 1 5 10 15

Lys Gln Gln Lys Thr Lys Arg Arg Ile Phe Pro Leu Ile Phe Leu Gln
 20 25 30

Lys Ser Ile Ser Leu Ile Ala His Cys His Lys Phe Cys Leu Val Leu
 35 40 45

Arg Glu Ala Thr Cys Thr Gly Ser Phe Tyr Val Gln Arg Lys Asp Phe
 50 55 60

Thr Ile Lys Lys Ile Asn Leu Ala Arg Xaa Gly Val Ser His Trp
 65 70 75

<210> 4329

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4329

Pro Leu Gly His His Gln Val Pro Leu Thr Thr Lys Leu Ser Val Lys
 1 5 10 15

Lys Thr Glu Asp Gly Asn Thr Leu Val Phe Ile Val Asn Val Lys Ala
 20 25 30

Asn Lys His Arg Ile Lys Gln Ala Ser
 35 40

3948

<210> 4330

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4330

Ile	Arg	His	Arg	His	Gly	Cys	Pro	Ser	Val	Leu	Arg	Met	Gly	Ser	Xaa
1					5				10					15	

Gln	Val	Gly	Xaa	Xaa	Gly	Cys	Trp	Gln	Asn	Arg	Arg	Ile	Pro	Ser	Phe
		20						25						30	

Ala	Glu	Trp	Gly	Thr	Cys	Ser	Glu	Pro	Ala	Gln	Xaa	Pro	Gly	Leu	Leu
		35					40					45			

Gln	Val	Lys	Leu	Asp	Gly	Arg	Pro	Arg	Ser	Gln	Phe	Leu	Ser	Thr	Arg
	50					55					60				

Arg	Gly	Arg	Cys	Leu	Glu	Pro	Leu	Pro	Thr	Phe	Ser	Trp	Met	Gly	Glu
65					70					75				80	

Ala	Ser	Gln	Glu	Ser	Lys	Gln	Cys	Cys	Pro	His	Gly	Arg	Arg	Thr	Glu
				85					90					95	

Arg	Leu	Gly	Lys	Leu	Gly	Ser	Thr	Ser	His	Pro	Glu	Arg	Leu	Leu	Glu
	100							105					110		

Thr	Pro	Gln	Leu	Glu	Ser	Pro	Gly
	115						120

3949

<210> 4331

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4331

Gly	Met	Pro	Thr	Ala	Ser	Gln	Arg	Val	Gly	Gly	Gly	Leu	Cys	Thr	Leu
1				5					10					15	

Ser	Thr	Asn	Leu	Pro	Pro	Thr	Arg	Leu	Leu	Thr	Thr	Ala	Pro	Arg	Arg
		20						25					30		

Leu	Ser	Asn	Ser	Val	Ser	Cys	Pro	Arg	Gly	Arg	Gly	Leu	Pro	Val	Glu
		35					40					45			

Xaa	Pro	Met	Cys	Leu	Pro	Leu	Val	Gln	Pro	Ala	Ala	Arg	Lys	Trp	Val
	50					55					60				

Thr	Ala	Thr	Gly	Leu	Gly	Trp	Ala	Arg	Pro	Gly	Ser	Gly	Arg	Cys	Gly
65					70					75					80

Ile	Gly	Glu	Thr	Thr	Ala	Pro	Val	Val	Ser	Ser	Ala
				85					90		

<210> 4332

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

3950

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4332

Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys Thr His Gln Gln
 1 5 10 15

Asp Ala Gly Val Thr Cys Ser Asp Gly Ser Asn Leu Glu Met Arg Leu
 20 25 30

Thr Arg Gly Gly Asn Met Cys Ser Gly Arg Ile Glu Ile Lys Phe Gln
 35 40 45

Gly Arg Trp Gly Thr Val Cys Asp Asp Asn Phe Asn Ile Asp His Ala
 50 55 60

Ser Val Ile Cys Arg Gln Leu Glu Cys Gly Ser Ala Val Ser Phe Ser
 65 70 75 80

Gly Ser Ser Asn Phe Gly Xaa Xaa Ser Gly Pro Ile Trp Phe Asp Asp
 85 90 95

Leu Ile Cys Asn Gly Asn Glu Ser Ala Leu Trp Asn Cys Lys His Gln
 100 105 110

Gly Trp Gly Lys His Asn Cys Asp His Ala Glu Asp Ala Gly Xaa Ile
 115 120 125

Cys Ser Lys Gly Xaa Asp Leu Thr
 130 135

<210> 4333

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4333

Ala Thr Ala His Gly Leu Thr Met Leu Ser Ile Pro Tyr Met Glu Arg
 1 5 10 15

Cys Phe Pro Phe Gln Ser Ser Leu Lys Leu Cys Arg Arg Phe Thr Cys
 20 25 30

Val Tyr Arg Ala Lys Arg Asn Gln Gly Met Glu Ile Glu Cys Val Ile
 35 40 45

3951

Lys Ile Lys Leu Phe Met Leu Tyr Asn His Ala
 50 55

<210> 4334

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4334

Lys Ala Cys Leu Leu His Cys Glu Gln Asp Ser Ser Pro Leu Asn His
 1 5 10 15

Glu Tyr Val Ser Val Leu Trp Ile Thr Lys Leu Val Met Leu Leu Ser
 20 25 30

Pro Asn Val Phe Phe Lys Lys Tyr Ser Phe Val His Leu Xaa Val Ile
 35 40 45

Lys Leu Gln Asn
 50

<210> 4335

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4335

Tyr Glu Ser Leu Glu Met Tyr Gln Thr Glu Gly Xaa Phe Ser Leu Gln
 1 5 10 15

Ile Met Ser Asn Val Ala Ile Leu Thr His Phe Ile Asn Ile Tyr Phe
 20 25 30

Val Ile Gly Gly Glu His His Leu Leu Phe
 35 40

3952

<210> 4336
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4336
Ala Leu Asn Ala Lys Leu Phe Tyr Thr Glu Lys Thr Leu Lys Xaa Val
1 5 10 15
Leu Cys Gly Ile Thr Val Ile Cys His Glu Lys Pro Tyr Met Gly Asp
20 25 30
Met Leu Lys Trp Leu Leu Asn Glu Ile Arg Gln Gln Arg Lys Met Pro
35 40 45
Leu Lys Cys
50

<210> 4337
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4337
Asp Tyr Ser Asp Phe Val Ser Phe Leu Leu Asn Phe Gly Gln Phe Cys
1 5 10 15
Phe Cys Leu Cys His Leu Ser Phe Gln Met Tyr Trp His Glu Tyr Phe
20 25 30
His Asn Ile Pro Xaa Leu Ser Phe Thr Phe Leu Gly Tyr Leu Ser Gly
35 40 45

3953

Val Ser Leu Phe Ile Pro Lys Met Phe Ile His Ala Phe Xaa
 50 55 60

<210> 4338

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4338

Asp Met Met Pro Leu Leu His Asn Tyr Val Thr Val Asp Thr Asp Thr
 1 5 10 15

Leu Leu Ser Asp Thr Lys Tyr Leu Glu Met Ile Tyr Ser Met Cys Lys
 20 25 30

Lys Val Leu Thr Gly Val Ala Gly Glu Asp Ala Glu Cys His Ala Ala
 35 40 45

Lys Leu Leu Glu Val Ile Ile Leu Gln Cys Lys Gly Arg Gly Ile Asp
 50 55 60

Gln Cys Ile Pro Leu Phe Val Glu Ala Ala Leu Glu Arg Leu Thr Arg
 65 70 75 80

Glu Val Lys Thr Ser Glu Leu Arg Thr Met Cys Leu Gln Val Ala Ile
 85 90 95

Ala Ala Leu Tyr Tyr Asn Pro His Leu Leu Leu Xaa Thr Leu Glu Asn
 100 105 110

Leu Arg Phe Pro Asn Asn Val Glu Pro Val Thr Asn His Phe Ile Thr
 115 120 125

Gln Trp Leu Asn Asp Val Gly Leu Phe Leu Gly Ala Ser
 130 135 140

<210> 4339

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4339

3954

Leu Ala Ser Met Gly Ile Pro Gln Val Val Val Gln Pro Arg Ser Trp
 1 5 10 15
 Trp Leu Gly Leu Met Leu Leu Pro Ser Pro Ser Val Ser Cys Ser Gly
 20 25 30
 Ser Ala Tyr Val Pro Gly Val Trp Tyr Leu Ile Phe Gln Asp Ala Asp
 35 40 45
 Ile Tyr Phe Leu Pro Thr Thr Pro Tyr Thr Leu Ser Leu Ala Asn Ile
 50 55 60
 Phe Glu Cys Leu Leu Leu Val Cys Leu Ser Ser Val Val Leu Leu Leu
 65 70 75 80
 Cys Pro Lys Cys Met Leu Cys Ser Val Ser Ala
 85 90

<210> 4340
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 4340
 Ser Tyr Ser Tyr Ser His Glu Arg Gln Asn Val Cys Phe Lys Ile Asn
 1 5 10 15
 Leu Val Phe Cys Thr Phe Lys Phe Glu Lys Val Thr Thr Gly Ser Phe
 20 25 30
 Pro Val Phe Leu His Val Ser Phe Leu Ile Asp His Tyr Trp Gln Thr
 35 40 45
 Val Ser Val Asn Tyr Gln Met Cys Lys Ile Phe Cys Ile Ser Leu Cys
 50 55 60
 Leu Ile Cys Lys
 65

<210> 4341
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 4341
 Gly Ala Ala Pro Pro Leu Ser Ser Glu His Lys Glu Pro Val Ala Gly
 1 5 10 15

3955

Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro Glu Val Arg Gly
 20 25 30
 Ala Arg Asn Ser Glu Pro Gln Asp Glu Gly Glu Leu Phe Gln Gly Val
 35 40 45
 Asp Pro Arg Ala Leu Ala Ala Val Leu Leu Gln Ala Leu Asp Arg Pro
 50 55 60
 Ala Ser Pro Pro Ala Pro Ser Gly Ser Gln Gln Gly Pro Glu Glu Glu
 65 70 75 80
 Ala Ala Glu Ala Leu Leu Thr Glu Thr Val Arg Ser Gln Thr His Ser
 85 90 95
 Leu Pro Ala Pro Glu Ser Pro Glu Pro Ala Ser Ala Ser Pro Ser Asp
 100 105 110
 Ser Gly Glu Trp Ala Arg Gly Glu Arg Ser Leu Arg Gly
 115 120 125

<210> 4342

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4342

Phe Leu Leu Trp Gln Ile Leu Ser Ser Asn Leu Ser Phe Leu Val Glu
 1 5 10 15
 Gln Ala Leu Phe Phe Glu Pro Ser Asn Asp Leu Glu Ala Asp Val Ile
 20 25 30
 Ser Val Pro Phe Ala Ile Cys Cys Val Gly Phe Phe Phe Phe Lys Ala
 35 40 45
 Thr Gln
 50

<210> 4343

<211> 273

<212> PRT

<213> Homo sapiens

<400> 4343

Asp Pro Arg Val Arg Glu Asp Pro Gln Pro Gly Pro Lys Pro Val Pro

3956

1	5	10	15
Glu Pro Glu Pro Glu Pro Glu Pro Ser Arg Glu Pro Val Ala Gly Ala	20	25	30
Pro Gly Cys Gly Thr Ala Gly Pro Pro Ala Met Ala Thr Leu Trp Gly	35	40	45
Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser Leu Ser Cys Leu Ala Leu	50	55	60
Ser Val Leu Leu Leu Ala His Cys Gln Thr Pro Pro Arg Ile Ser Arg	65	70	75
Met Ser Asp Val Asn Val Ser Ala Leu Pro Ile Lys Lys Asn Ser Gly	85	90	95
His Ile Tyr Asn Lys Asn Ile Ser Gln Lys Asp Cys Asp Cys Leu His	100	105	110
Val Val Glu Pro Met Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys	115	120	125
Leu Arg Cys Glu Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys	130	135	140
Val Thr Ile Ile Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Leu Tyr	145	150	155
Met Val Tyr Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe	165	170	175
Gly His Ala Gln Leu Ile Gln Ser Asp Asp Asp Ile Gly Asp His Gln	180	185	190
Pro Phe Ala Asn Ala His Asp Val Leu Ala Arg Ser Arg Ser Arg Ala	195	200	205
Asn Val Leu Asn Lys Val Glu Tyr Gly Thr Ala Ala Leu Glu Ala Ser	210	215	220
Ser Pro Arg Ala Ala Lys Ser Leu Ser Leu Thr Gly Met Leu Ser Ser	225	230	235
Ala Asn Trp Gly Ile Glu Phe Lys Val Thr Arg Lys Lys Gln Ala Asp	245	250	255
Asn Trp Lys Gly Thr Asp Trp Val Leu Leu Gly Phe Ile Leu Ile Pro	260	265	270
Cys			

3957

<210> 4344

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4344

Val Met Ala Pro Lys Asp Val Leu Phe Ile Leu Ile Pro Gly Thr Cys
1 5 10 15

Lys His Val Thr Leu Tyr Gly Lys Arg Asp Phe Gly Gln Ala Pro Val
20 25 30

Ile Pro Asp Thr Gln Glu Ala Glu Ala Lys Glu Ser Leu Lys Pro Gly
35 40 45

Arg Arg Arg Leu Gln Gly Ala Lys Ile Val Pro Met His Ser Ser Leu
50 55 60

Ser Asn Lys Val Arg Leu Cys Leu
65 70

<210> 4345

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4345

Arg Trp Arg Asp Thr Leu Thr Gln Leu Ser Leu Ser Tyr Tyr Ala Thr
1 5 10 15

Asp Gln Gly Lys Arg Trp Asp Asp Arg Trp Gly Gln Thr Glu Arg Ala
20 25 30

Ser Gly Lys Gln Ala Tyr Ile Val Phe Phe Lys Met His Lys Ala Ser
35 40 45

Gln Leu Arg Xaa His Leu Val Trp Ala Ser Leu Gly Leu Glu Thr Leu
50 55 60

Leu Glu Phe Phe Leu Gly Thr Trp Arg Val Asp Asp Ile Gln Ala Leu

65 70 75 80
Lys His Ser Gln Arg Ser Pro Glu Gly Ala Thr Phe Ser Arg
 85 90

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<400> 4346
Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val
 1             5             10             15
Leu Val Gly Asn Lys Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys
      20             25             30
Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr
      35             40             45
Ser Ala Lys Thr Arg Gln Gly Val Asp Asp Ala Phe Tyr Thr Leu Val
      50             55             60
Arg Glu Ile Arg Lys His Lys Glu Lys Met Ser Lys Asp Gly Lys Lys
 65             70             75             80
Lys Lys Lys Lys Ser Lys Thr Lys Cys Val Ile Met
      85             90

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<400> 4347
Pro Ala Ser Glu Val Leu Met Asp Asp Asp Leu Gln Lys Ser Val Asp
 1               5               10               15
Met Ile Met Asp Met Phe Cys Pro Pro Gly Ile Lys Ile Asp Ala Tyr
      20               25               30
Pro Trp Leu Glu Cys Phe Ile Lys Ser Tyr Asn Val Thr Asn Gly Thr
      35               40               45
Asp Asn Gln Ile Cys Tyr Gln Ile Phe Asp Thr Thr Val Ala Glu Asp
 50               55               60

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3959

Val Ile

65

<210> 4348

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4348

Leu Arg Cys His Lys Lys Gln His Ser Asp Gln Ser Glu Asn Lys Asn
 1 5 10 15

Ser Asp Leu Val Thr Phe Pro Pro Glu Ser Gly Ala Ser Gly Gln Leu
 20 25 30

Ser Thr Leu Val Ser Val Gly Gln Leu Glu Ala Pro Leu Glu Pro Ser
 35 40 45

Gln Asp Leu
 50

<210> 4349

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4349

Lys Ile Ala Glu Leu Glu Phe Ser Pro Val Phe His Phe Thr Leu Pro
 1 5 10 15

Val Ser His Ala Gln Asn Thr Arg Gly Ser Ala Gly Ser Gln Ser Thr
 20 25 30

Asp Glu Asn Pro Asn Leu Ser Xaa Phe Leu Gly Ser Ser Lys Trp Trp
 35 40 45

Ser Arg Met Val Gly Asp Leu Ile Ser Tyr Tyr Leu Pro Gly Glu Xaa

3960

50

55

60

Phe Leu Pro Gly Lys

65

<210> 4350

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (310)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4350

Gly	Gly	Gly	Arg	Gly	Arg	Glu	Gly	Arg	Arg	Pro	Glu	Arg	Gly	Cys	Cys
1				5					10					15	

Glu	Gly	Arg	Gly	Pro	Val	Thr	Gly	Arg	Glu	Ala	Ala	Gly	Gly	Gly	Gly
			20					25					30		

Gly	Thr	Ser	Thr	Thr	Met	Ser	Arg	Ser	Val	Leu	Gln	Pro	Ser	Gln	Gln
		35						40					45		

Lys	Leu	Ala	Glu	Lys	Leu	Thr	Ile	Leu	Asn	Asp	Arg	Gly	Val	Gly	Met
	50						55				60				

Leu	Thr	Arg	Leu	Tyr	Asn	Ile	Lys	Lys	Ala	Cys	Gly	Asp	Pro	Lys	Ala
65					70					75					80

Lys	Pro	Ser	Tyr	Leu	Ile	Asp	Lys	Asn	Leu	Glu	Ser	Ala	Val	Lys	Phe
				85					90					95	

Ile	Val	Arg	Lys	Phe	Pro	Ala	Val	Glu	Thr	Arg	Asn	Asn	Asn	Gln	Gln
			100						105					110	

Leu	Ala	Gln	Leu	Gln	Lys	Glu	Lys	Ser	Glu	Ile	Leu	Lys	Asn	Leu	Ala
		115					120						125		

Leu	Tyr	Tyr	Phe	Thr	Phe	Val	Asp	Val	Met	Glu	Phe	Lys	Asp	His	Val
	130						135					140			

Cys	Glu	Leu	Leu	Asn	Thr	Ile	Asp	Val	Cys	Gln	Val	Phe	Phe	Asp	Ile
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3961

145 150 155 160
 Thr Val Asn Phe Asp Leu Thr Lys Asn Tyr Leu Asp Leu Ile Ile Thr
 165 170 175
 Tyr Thr Thr Leu Met Ile Leu Leu Ser Arg Ile Glu Glu Arg Lys Ala
 180 185 190
 Ile Ile Gly Leu Tyr Asn Tyr Ala His Glu Met Thr His Gly Ala Ser
 195 200 205
 Asp Arg Glu Tyr Pro Arg Leu Gly Gln Met Ile Val Asp Tyr Glu Asn
 210 215 220
 Pro Leu Lys Lys Met Met Glu Glu Phe Val Pro His Ser Lys Ser Leu
 225 230 235 240
 Ser Asp Ala Leu Ile Ser Leu Gln Met Val Tyr Pro Arg Arg Asn Leu
 245 250 255
 Ser Ala Asp Gln Trp Arg Asn Ala Gln Leu Leu Ser Leu Ile Ser Ala
 260 265 270
 Pro Ser Thr Met Leu Asn Pro Ala Gln Ser Asp Thr Met Pro Cys Glu
 275 280 285
 Tyr Leu Ser Leu Gly Cys Asn Gly Xaa Ile Gly Leu Ser Leu Ala Leu
 290 295 300
 Phe Val Pro Trp Gly Xaa Leu Asn Thr
 305 310

<210> 4351

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4351

Gly Arg Gly Ser Val Ile Ser Trp Ile Ser Gly His Ile Cys Tyr Ser
 1 5 10 15

Thr Asp His Gly Thr Leu Gly Glu Glu Arg Cys Phe Pro Ser Thr His
 20 25 30

3962

Leu Met Phe Ile Gly Trp Gly Ser Trp Asn Arg Arg Gln Ile Ser Lys
 35 40 45

Glu Lys Gly Thr Xaa Ile Tyr Val Ile
 50 55

<210> 4352

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4352

Val Ile Pro Ile Tyr Ile Xaa Xaa Cys Phe Thr Gly Leu Ile Ser Thr
 1 5 10 15

Ser Ser Thr Pro Pro Met Asn Ser Ser Asn Thr Ser Ile Ile Val Cys
 20 25 30

Ser Ser Ala Glu Ile Arg Ala Leu Phe Tyr Trp Leu Gly Cys Arg Phe
 35 40 45

Leu Phe Tyr Phe Leu Lys Arg Leu Ile Ser Tyr Arg Lys Gly Phe Phe
 50 55 60

Leu Tyr Pro Val Phe Thr
 65 70

<210> 4353

<211> 93

<212> PRT

<213> Homo sapiens

<400> 4353

Gly Thr Arg Glu Ser Asp Gly Glu Lys Lys Tyr Pro Cys Pro Glu Cys
 1 5 10 15

Gly Ser Phe Phe Arg Ser Lys Ser Tyr Leu Asn Lys His Ile Gln Lys

20 25 30

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<210> 4354
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4354
Ser His Gln Ile Phe Met Phe Lys Lys Ile Ser Leu Trp Ile Glu Ser
 1             5             10             15

Ser Pro Ala Leu Arg Glu Lys Glu Gly Pro Tyr Gly Arg Leu Xaa Ser
                20             25             30

His Tyr Tyr Cys Leu Tyr Pro Ala Val Leu Met Lys Pro Pro Thr Leu
          35             40             45

Ser His Ser Arg Asn His Lys Thr Gln Ala Val Leu Asp Ser Gly Gly
 50             55             60

Leu Pro Gly Lys Ile Arg
 65             70

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<220>
<221> SITE

3964

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4355

Phe	Ser	Xaa	Pro	Val	Gln	Arg	Leu	Xaa	Cys	Arg	Arg	His	Pro	Leu	Ala
1				5				10						15	

Ala	Cys	Ser	Ser	Ala	Ala	Pro	Phe	Ala	Ala	Val	Pro	Cys	Ala	Pro	Glu
			20					25					30		

Asn	Glu	Asn	Pro	Ala	Phe	Ala	Thr	Asn	His	Ala	Pro	Val	Asn	Ala	Lys
		35					40					45			

Pro	His	Ala	Leu	Cys	Pro	Glu	Arg	Lys	Pro	Leu	Thr	Ser	Lys	Glu	Asn
	50					55					60				

Val	Leu	Met	His	Ser	Ser	Ile	Leu	Ala	Pro	Xaa	Arg	Glu	Ser	Trp	Xaa
65					70					75					80

Thr	Ala	Gly	Glu	Gly	Glu	Asn	Trp	Lys	Lys	Lys	Lys
			85					90			

<210> 4356

<211> 140

<212> PRT

<213> Homo sapiens

<400> 4356

Glu	Cys	Trp	Ser	Glu	Arg	Ser	Leu	Lys	Pro	Gly	Arg	Gly	Ala	Asp	Pro
1				5				10					15		

Leu	Cys	Ser	Ala	Pro	Thr	Leu	Cys	Gln	Gly	Gly	Leu	Ala	Thr	Thr	Val
			20					25					30		

3965

Phe Phe Leu Leu Phe Ile Cys Ser Trp Ile Phe Leu Lys Pro Phe His
 35 40 45
 His Gln Pro Ser Ser Ser Leu Pro Ala Pro Trp Arg Leu Lys Leu Phe
 50 55 60
 Pro Ala Tyr Val Arg Glu Gly Glu Pro Glu Thr Ala Thr Ser Gly Val
 65 70 75 80
 Lys Gly Val Ser Ser Glu Pro Arg Thr Met Ala Phe Cys His Cys Leu
 85 90 95
 Leu Ser Ser Cys Cys Trp Gly Leu Gly Leu Leu Ala Ala Ala Ser Phe
 100 105 110
 Ser Ala Asn Gln Glu Ser Arg Glu Val Gly Thr Ala Ser Thr Lys Thr
 115 120 125
 Leu Lys Met Ser Gly Glu Asp Arg Leu Ser Pro Gly
 130 135 140

<210> 4357

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4357

Leu Gly Leu Gly Gln Cys Leu Trp Pro Xaa Phe Ser His Ser Tyr Xaa
 1 5 10 15

Ala Glu Cys Ser Lys Ser Val Gln Ile Arg Glu Thr Thr Arg Cys Asn
 20 25 30

Gln Ser Ser Cys Ser Leu Pro Tyr Phe Gln Ile Leu Tyr Val Ile Ser

3966

35

40

45

His Phe Xaa Ser Ile Asn Leu Leu Pro Pro
 50 55

<210> 4358

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4358

Ala Leu Arg Leu Arg Glu Asp Asp Arg Arg Gly Gly Thr Met Leu Leu
 1 5 10 15

Pro Asn Ile Leu Leu Thr Gly Thr Pro Gly Val Gly Lys Thr Thr Leu
 20 25 30

Gly Lys Glu Leu Ala Ser Lys Ser Gly Leu Lys Tyr Ile Asn Val Gly
 35 40 45

Asp Leu Ala Arg Glu Glu Gln Leu Tyr Asp Gly Tyr Asp Glu Glu Tyr
 50 55 60

Asp Cys Pro Ile Leu Asp Glu Asp Arg Val Val Asp Glu Leu Asp Asn
 65 70 75 80

Gln Met Arg Glu Gly Gly Val Ile Val Asp Tyr His Gly Cys Asp Phe
 85 90 95

Phe Pro Glu Arg Trp Phe His Ile Val Phe Val Leu Arg Thr Asp Thr
 100 105 110

Asn Val Leu Tyr Glu Arg Leu Glu Thr Arg Gly Tyr Asn Glu Lys Lys
 115 120 125

Leu Thr Asp Asn Ile Gln Cys Glu Ile Phe Gln Val Leu Tyr Glu Glu
 130 135 140

Ala Thr Ala Ser Tyr Lys Glu Glu Ile Val His Gln Leu Pro Ser Asn
 145 150 155 160

Lys Pro Glu Glu Leu Glu Asn Asn Val Asp Gln Ile Leu Lys Trp Ile
 165 170 175

Glu Gln

3967

<210> 4359

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4359

Leu	Met	Val	Ile	Asp	Phe	Ile	Pro	Lys	His	Asn	Trp	Lys	Ile	Glu	Xaa
1				5				10					15		

Glu	Pro	Leu	Pro	Asn	Gly	Lys	Glu	Met	Lys	Ser	Phe	His	Ser	Asp	Tyr
			20				25						30		

<210> 4360

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4360

Asn	Ile	Asn	Pro	Asn	Ser	Pro	Phe	His	Phe	Ser	Leu	Arg	His	Glu	Ser
1				5				10					15		

Tyr	Lys	Thr	Gln	Tyr	Arg	Ala	Met	Phe	Val	Met	Asn	Cys	Ser	Ile	Asn
			20				25					30			

Lys	Glu	Glu	Val	Leu	Arg	Xaa	Lys	Ala	Ser	Glu	Glu	Gln	Glu	Gly	Lys
			35				40					45			

Gly	Gly	Ser	Ile	Arg	Lys	Met	Arg	Ser
			50			55		

<210> 4361

<211> 41

<212> PRT

<213> Homo sapiens

3968

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4361

Asn Gly Phe Glu Thr Ile Gly Thr Asp Lys Ser Gln Ile Gly Gly Ser
 1 5 10 15

Leu Ile Leu Asn Trp Pro Cys His Gln Cys Leu Phe Leu Arg Xaa Phe
 20 25 30

Gly Gly Cys His Val Tyr His Phe Phe
 35 40

<210> 4362

<211> 391

<212> PRT

<213> Homo sapiens

<400> 4362

Thr Trp Val Pro Thr Thr Ile Leu Asp Leu His Gly Ile Leu Asp His
 1 5 10 15

Val Lys Lys Gln Pro Pro Lys Ser Leu Arg Ser Met Glu Leu Glu Cys
 20 25 30

Ala Val Leu Gly Arg Lys Leu Glu Thr Trp Asp Lys His Glu Glu Leu
 35 40 45

Glu Glu Leu Val Ala Arg Phe Leu Gly Val Glu Ala Ala Met Ala Tyr
 50 55 60

Gly Met Gly Phe Ala Thr Asn Ser Met Asn Ile Pro Ala Leu Val Gly
 65 70 75 80

Lys Gly Cys Leu Ile Leu Ser Asp Glu Leu Asn His Ala Ser Leu Val
 85 90 95

Leu Gly Ala Arg Leu Ser Gly Ala Thr Ile Arg Ile Phe Lys His Asn
 100 105 110

Asn Met Gln Ser Leu Glu Lys Leu Leu Lys Asp Ala Ile Val Tyr Gly
 115 120 125

Gln Pro Arg Thr Arg Arg Pro Trp Lys Lys Ile Leu Ile Leu Val Glu
 130 135 140

3969

Gly Ile Tyr Ser Met Glu Gly Ser Ile Val Arg Leu Pro Glu Val Ile
 145 150 155 160
 Ala Leu Lys Lys Lys Tyr Lys Ala Tyr Leu Tyr Leu Asp Glu Ala His
 165 170 175
 Ser Ile Gly Ala Leu Gly Pro Thr Gly Arg Gly Val Val Glu Tyr Phe
 180 185 190
 Gly Leu Asp Pro Glu Asp Val Asp Val Met Met Gly Thr Phe Thr Lys
 195 200 205
 Ser Phe Gly Ala Ser Gly Gly Tyr Ile Gly Gly Lys Lys Glu Leu Ile
 210 215 220
 Asp Tyr Leu Arg Thr His Ser His Ser Ala Val Tyr Ala Thr Ser Leu
 225 230 235 240
 Ser Pro Pro Val Val Glu Gln Ile Ile Thr Ser Met Lys Cys Ile Met
 245 250 255
 Gly Gln Asp Gly Thr Ser Leu Gly Lys Glu Cys Val Gln Gln Leu Ala
 260 265 270
 Glu Asn Thr Arg Tyr Phe Arg Arg Arg Leu Lys Glu Met Gly Phe Ile
 275 280 285
 Ile Tyr Gly Asn Glu Asp Ser Pro Val Val Pro Leu Met Leu Tyr Met
 290 295 300
 Pro Ala Lys Ile Gly Ala Phe Gly Arg Glu Met Leu Lys Arg Asn Ile
 305 310 315 320
 Gly Val Val Val Val Gly Phe Pro Ala Thr Pro Ile Ile Glu Ser Arg
 325 330 335
 Ala Arg Phe Cys Leu Ser Ala Ala His Thr Lys Glu Ile Leu Asp Thr
 340 345 350
 Ala Leu Lys Glu Ile Asp Glu Val Gly Asp Leu Leu Gln Leu Lys Tyr
 355 360 365
 Ser Arg His Arg Leu Val Pro Leu Leu Asp Arg Pro Phe Asp Glu Thr
 370 375 380
 Thr Tyr Glu Glu Thr Glu Asp
 385 390

<210> 4363

3970

<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4363

Ser	Gly	Val	Val	Thr	Ala	Cys	Glu	Gly	Thr	Glu	Leu	Ser	Ala	Gly	Ser
1				5					10					15	

Arg	Asp	His	Gly	His	Lys	Ala	Leu	Thr	Leu	Thr	Arg	Pro	Gln	Gln	Ala
			20					25					30		

Leu	Xaa	Glu	Gly	Gln	Pro	Pro	Pro	Leu	Leu	Leu	Leu	Ser	Leu	Thr	Val
		35					40					45			

Ala	Val	Asp	Leu	Arg	Xaa	Tyr	Ile	Leu	Arg	Xaa	His	Ser	Leu
	50					55					60		

<210> 4364
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

3971

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4364

Gly Thr Arg Ser Gly Ser Glu Glu Asp Pro Glu Thr Glu Ser Gly Pro
 1 5 10 15

Pro Val Glu Arg Cys Gly Val Leu Ser Lys Trp Thr Asn Tyr Ile His
 20 25 30

Gly Trp Gln Asp Arg Trp Val Val Leu Lys Asn Asn Ala Leu Ser Tyr
 35 40 45

Tyr Lys Ser Glu Asp Glu Thr Glu Tyr Gly Cys Arg Gly Ser Ile Cys
 50 55 60

Leu Ser Lys Ala Val Ile Thr Pro His Asp Phe Xaa Glu Cys Arg Phe
 65 70 75 80

Asp Ile Ser Val Asn Asp Ser Val Trp Tyr Leu Arg Ala Gln Asp Pro
 85 90 95

Asp His Arg Gln Gln Trp Ile Asp Ala Ile Glu Gln His Lys Thr Glu
 100 105 110

Ser Gly Tyr Gly Ser Glu Ser Ser Leu Arg Arg His Gly Ser Met Val
 115 120 125

Ser Leu Val Ser Gly Ala Ser Gly Tyr Ser Glu Thr Ser Thr Xaa Ser
 130 135 140

Phe Lys Lys Gly His Ser Leu Arg Glu Lys Leu Ala Glu Met Glu Thr
 145 150 155 160

Phe Arg Asp Ile Leu Cys Arg Gln Val Asp Thr Leu Gln Lys Tyr Xaa
 165 170 175

Asp Ala Cys Ala Asp Ala Val Ser Lys Asp Glu Leu Gln Arg Asp Lys
 180 185 190

Val Val Glu Asp Asp Glu Asp Asp Phe Pro Thr Thr Arg Ser Asp Gly
 195 200 205

Asp Phe Leu His Ser Thr Asn Gly Asn Lys Glu Lys Leu Phe Pro His
 210 215 220

Val
 225

3972

<210> 4365

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4365

Ile Ala Ser Ala Xaa Phe Tyr Ala Arg Leu Asn Tyr Glu Pro Val Arg
 1 5 10 15

Pro Gly Gly Gly Ser Gly Gly His Ser Ala Arg Cys Arg Arg Arg Glu
 20 25 30

Arg Gly Ala Ala Ala Ala His Gly Ala Pro Ser Ala Ser Phe Phe Pro
 35 40 45

Pro Pro Val Pro Asn Pro Phe Val Gln Gln Thr Gln Ile Gly Ser Ala
 50 55 60

Arg Arg Val Gln Ile Val Leu Leu Gly Ile Ile Leu Leu Pro Ile Arg
 65 70 75 80

Val Leu Leu Val Ala Leu Ile Tyr Tyr Leu His Gly His Cys Cys Ile
 85 90 95

Ser Thr Val Cys Cys Pro Glu Lys Leu Thr His Pro Ile Thr Gly Trp
 100 105 110

Arg Arg

<210> 4366

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4366

Val Gly Met Val Ser His Ser Ser Arg Cys Arg Phe Gly Leu Leu Gly
 1 5 10 15

Thr Ile Trp Leu Asp Pro Glu Ser Ala Trp Asn Arg Asp Arg Asp Leu
 20 25 30

Ser Gly Pro Ala Ala Gly Ser Ser Leu Val Val Ala Val Val Arg Gly
 35 40 45

3973

Leu Arg Trp Leu Pro Gly Leu Val
 50 55

<210> 4367

<211> 389

<212> PRT

<213> Homo sapiens

<400> 4367

Gly Thr Ser Ser Ser Ser Ser Ser Gln Leu Ala Pro Asn Gly Ala Lys
 1 5 10 15

Cys Ile Pro Val Arg Asp Arg Gly Phe Leu Val Gln Thr Ile Glu Phe
 20 25 30

Ala Glu Gln Arg Ile Pro Val Leu Asn Glu Tyr Cys Val Val Cys Asp
 35 40 45

Glu Pro His Val Phe Gln Asn Gly Pro Met Leu Arg Pro Thr Val Cys
 50 55 60

Glu Arg Glu Leu Cys Val Phe Ala Phe Gln Thr Leu Gly Val Met Asn
 65 70 75 80

Glu Ala Ala Asp Glu Ile Ala Thr Gly Ala Gln Val Val Asp Leu Leu
 85 90 95

Val Ser Met Cys Arg Ser Ala Leu Glu Ser Pro Arg Lys Val Val Ile
 100 105 110

Phe Glu Pro Tyr Pro Ser Val Val Asp Pro Asn Asp Pro Gln Met Leu
 115 120 125

Ala Phe Asn Pro Arg Lys Lys Asn Tyr Asp Arg Val Met Lys Ala Leu
 130 135 140

Asp Ser Ile Thr Ser Ile Arg Glu Met Thr Gln Ala Pro Tyr Leu Glu
 145 150 155 160

Ile Lys Lys Gln Met Asp Lys Gln Asp Pro Leu Ala His Pro Leu Leu
 165 170 175

Gln Trp Val Ile Ser Ser Asn Arg Ser His Ile Val Lys Leu Pro Val
 180 185 190

Asn Arg Gln Leu Lys Phe Met His Thr Pro His Gln Phe Leu Leu Leu
 195 200 205

3974

Ser Ser Pro Pro Ala Lys Glu Ser Asn Phe Arg Ala Ala Lys Lys Leu
 210 215 220

Phe Gly Ser Thr Phe Ala Phe His Gly Ser His Ile Glu Asn Trp His
 225 230 235 240

Ser Ile Leu Arg Asn Gly Leu Val Val Ala Ser Asn Thr Arg Leu Gln
 245 250 255

Leu His Gly Ala Met Tyr Gly Ser Gly Ile Tyr Leu Ser Pro Met Ser
 260 265 270

Ser Ile Ser Phe Gly Tyr Ser Gly Met Asn Lys Lys Gln Lys Val Ser
 275 280 285

Ala Lys Asp Glu Pro Ala Ser Ser Ser Lys Ser Ser Asn Thr Ser Gln
 290 295 300

Ser Gln Lys Lys Gly Gln Gln Ser Gln Phe Leu Gln Ser Arg Asn Leu
 305 310 315 320

Lys Cys Ile Ala Leu Cys Glu Val Ile Thr Ser Ser Asp Leu His Lys
 325 330 335

His Gly Glu Ile Trp Val Val Pro Asn Thr Asp His Val Cys Thr Arg
 340 345 350

Phe Phe Phe Val Tyr Glu Asp Gly Gln Val Gly Asp Ala Asn Ile Asn
 355 360 365

Thr Gln Glu Gly Gly Ile His Lys Glu Ile Leu Arg Val Ile Gly Asn
 370 375 380

Gln Thr Ala Thr Gly
 385

<210> 4368

<211> 195

<212> PRT

<213> Homo sapiens

<400> 4368

Thr Ser Leu Gln Leu Met Met Ser Ser Phe Ser Gln Gly Val Gln Arg
 1 5 10 15

Gln Glu Val Val Cys Lys Arg Leu Asp Asp Asn Ser Ile Val Gln Asn
 20 25 30

Asn Tyr Cys Asp Pro Asp Ser Lys Pro Pro Glu Asn Gln Arg Ala Cys

3975

35	40	45
Asn Thr Glu Pro Cys Pro Pro Glu Trp Phe Ile Gly Asp Trp Leu Glu		
50	55	60
Cys Ser Lys Thr Cys Asp Gly Gly Met Arg Thr Arg Ala Val Leu Cys		
65	70	75
Ile Arg Lys Ile Gly Pro Ser Glu Glu Glu Thr Leu Asp Tyr Ser Gly		
85	90	95
Cys Leu Thr His Arg Pro Val Glu Lys Glu Pro Cys Asn Asn Gln Ser		
100	105	110
Cys Pro Pro Gln Trp Val Ala Leu Asp Trp Ser Glu Cys Thr Pro Lys		
115	120	125
Cys Gly Pro Gly Phe Lys His Arg Ile Val Leu Cys Lys Ser Ser Asp		
130	135	140
Leu Ser Lys Thr Phe Pro Ala Ala Gln Cys Pro Glu Glu Ser Lys Pro		
145	150	155
Pro Val Arg Ile Arg Cys Ser Leu Gly Arg Cys Pro Pro Pro Arg Trp		
165	170	175
Val Thr Gly Asp Trp Gly Gln Cys Ser Ala Gln Cys Gly Leu Gly Gln		
180	185	190
His Leu Gly		
195		

<210> 4369

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

3976

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4369

Ala Gln Gly Phe Arg His Glu Xaa Xaa Leu Leu Val Gly Gly Leu Leu
 1 5 10 15

Ala Xaa Asp Gly Asp Cys Pro Gly Val Val Thr Met Phe Leu Ser Ala
 20 25 30

Val Phe Phe Ala Lys Ser Lys Ser Lys Asn Ile Leu Val Arg Met Val
 35 40 45

Ser Glu Ala Gly Thr Gly Phe Cys Phe Asn Thr Lys Arg Asn Arg Leu
 50 55 60

Arg Glu Lys Leu Thr Leu Leu His Tyr Asp Pro Val Val Lys Gln Arg
 65 70 75 80

Val Leu Phe Val Glu Lys Lys Lys Ile Arg Ser Leu
 85 90

<210> 4370

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4370

Arg Phe Gln Phe Pro Val Cys His Arg Trp Pro Pro Ile Phe Gln Lys
 1 5 10 15

Ser Leu Ala Pro Leu Phe Leu Phe Leu His Pro Ser Pro Gln Arg Ser
 20 25 30

Leu Thr Arg Xaa Lys Gln Glu Asp Ser Val Ile Tyr Lys Arg His Phe
 35 40 45

Ser Phe Thr Arg Thr Glu Asn Ser Thr Gln His Tyr Arg Asn Ser
 50 55 60

<210> 4371

<211> 91

3977

<212> PRT

<213> Homo sapiens

<400> 4371

Asp Val Cys Phe Asn Leu Ile Phe Leu Arg Asp Gly Gly His His Val
 1 5 10 15

Glu Thr Arg Lys Trp Gly Lys Cys Glu Leu Ser Arg Gln Arg Phe Ile
 20 25 30

Leu Cys Leu Tyr Leu Phe Leu Ile Gly Leu Ile Ser Asn Val Leu Asn
 35 40 45

Ser Ser Ile Pro Gly Leu Gly Val Cys Asn Gly Tyr Gln Lys Thr Asn
 50 55 60

Lys Lys Arg Lys Lys Lys Glu Lys Lys Lys Glu Asn Asn Cys Asp Met
 65 70 75 80

Leu Leu Ser Leu Leu Tyr Phe Ser Asn Asn Met
 85 90

<210> 4372

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4372

Lys Leu Ser Glu Gly Tyr Tyr Leu Tyr Leu Met Lys Glu Asn Pro Asn
 1 5 10 15

Lys Ala His Leu Glu Ile Asp Ile Leu Leu Tyr Met Cys Tyr Arg Tyr
 20 25 30

Thr Tyr Ile Val Gln Ile Asp Met Cys Asp Ala Tyr Ile Gln Cys Tyr
 35 40 45

Ile Cys Val Tyr Val Cys Ile His Thr Glu Ser Val Ile Cys Ile His
 50 55 60

<210> 4373

<211> 255

<212> PRT

<213> Homo sapiens

3978

<400> 4373

Glu Arg Arg Val Arg Arg Val His Glu Glu Val Arg Val Lys Ile Lys
 1 5 10 15
 Asp Leu Asn Glu His Ile Val Cys Cys Leu Cys Ala Gly Tyr Phe Val
 20 25 30
 Asp Ala Thr Thr Ile Thr Glu Cys Leu His Thr Phe Cys Lys Ser Cys
 35 40 45
 Ile Val Lys Tyr Leu Gln Thr Ser Lys Tyr Cys Pro Met Cys Asn Ile
 50 55 60
 Lys Ile His Glu Thr Gln Pro Leu Leu Asn Leu Lys Leu Asp Arg Val
 65 70 75 80
 Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Asp Ser Glu
 85 90 95
 Glu Lys Arg Ile Arg Glu Phe Tyr Gln Ser Arg Gly Leu Asp Arg Val
 100 105 110
 Thr Gln Pro Thr Gly Glu Glu Pro Ala Leu Ser Asn Leu Gly Leu Pro
 115 120 125
 Phe Ser Ser Phe Asp His Ser Lys Ala His Tyr Tyr Arg Tyr Asp Glu
 130 135 140
 Gln Leu Asn Leu Cys Leu Glu Arg Leu Ser Ser Gly Lys Asp Lys Asn
 145 150 155 160
 Lys Ser Val Leu Gln Asn Lys Tyr Val Arg Cys Ser Val Arg Ala Glu
 165 170 175
 Val Arg His Leu Arg Arg Val Leu Cys His Arg Leu Met Leu Asn Pro
 180 185 190
 Gln His Val Gln Leu Leu Phe Asp Asn Glu Val Leu Pro Asp His Met
 195 200 205
 Thr Met Lys Gln Ile Trp Leu Ser Arg Trp Phe Gly Lys Pro Ser Pro
 210 215 220
 Leu Leu Leu Gln Tyr Ser Val Lys Glu Lys Arg Arg Leu Ala Lys Pro
 225 230 235 240
 Pro Pro His Pro Thr Pro Leu Pro Ser Pro Asp Ile Tyr Val Lys
 245 250 255

3979

<210> 4374

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4374

Met	Xaa	Leu	Leu	Tyr	Phe	Ser	Gln	Gln	Gln	Ala	Arg	Gly	Arg	Asn	Ile
1				5					10					15	

His	Lys	Tyr	Asp	Arg	Ser	Tyr	Met	Lys	Phe	Gly	Ser	Pro	Pro	Ile	Lys
			20					25					30		

Val Ala

<210> 4375

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4375

Cys	Ser	Pro	Leu	Ala	Glu	Glu	Val	Val	Ser	Phe	Leu	Trp	Lys	Asn	Phe
1				5					10					15	

Gln	Asn	Ser	Gly	Phe	Phe	Phe	Phe	Phe	Gly	Val	Phe	His	Gln	Leu	Lys
			20					25					30		

Ser	Asp	Ser	Xaa	Phe	Glu	Phe	Ser	Ser	Tyr	Ile	Cys	Ile	Val	Ser	Ser
		35					40					45			

Phe	Phe	Leu	Pro	Leu	Tyr	Pro	Ser	Cys	Phe	Thr	Leu	Tyr	Leu	Ser	Ile
	50					55				60					

Pro	Cys	Ser	Asn	Tyr	Cys	Lys	Ser	Leu	Tyr	Arg	Lys	Ser	Ser	Val	Ile
65					70					75				80	

3980

<210> 4376
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4376
 Arg Val Phe Gln Ala Trp Leu Phe Thr Xaa Ser Phe Arg Gly Thr Leu
 1 5 10 15
 Lys Pro Trp Arg His Leu Ala Leu Glu Pro Trp Arg Phe Pro Cys His
 20 25 30
 Ser Pro Cys Trp Asp Lys Ala Arg Ala Trp His Pro Gly Met Met Phe
 35 40 45
 Pro Ala Ala Glu Cys Ala His Asn Leu Ser Ser Ser Cys Val Arg Gln
 50 55 60
 Leu His Met Leu Ala Ser Asn Xaa Pro Xaa Gln Pro Ser Gln Tyr Tyr
 65 70 75 80
 Cys Phe Ser Ser Ser Tyr Arg Trp Gly Asp Asp Asp Ile
 85 90

<210> 4377
 <211> 86
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

3981

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4377

Lys	Glu	Asn	Glu	Lys	Glu	Ser	Pro	Arg	Gln	Arg	Arg	Gly	Lys	Glu	Asn
1				5					10					15	

Lys	Leu	Arg	His	Ser	Xaa	Phe	Ser	Phe	Leu	Thr	Leu	Cys	Leu	Glu	His
			20					25					30		

His	Thr	Ala	His	Lys	Leu	Phe	Pro	Asn	Ala	Gln	Leu	Ala	Pro	Lys	Val
		35					40					45			

Gly	Ala	Trp	His	Gly	Xaa	Gly	Ala	His	Lys	Thr	Leu	Thr	Lys	Leu	Xaa
	50					55					60				

Ala	Gly	Met	Gly	Glu	Xaa	Leu	Leu	Val	His	Ser	Ser	Tyr	Pro	Leu	Pro
65					70					75					80

Pro	Asn	Pro	Leu	Leu	Ala
					85

<210> 4378

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4378

Glu	Lys	Val	Ser	Leu	Ser	Ser	Pro	Ser	Pro	Ala	Thr	Leu	Ala	Met	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

3982

1 5 10 15
 Gln Pro Ala Gly Leu Gln Val Asp Tyr Val Phe Arg Gly Val Glu His
 20 25 30
 Ala Val Arg Val Met Val Ser Gly Gln Val Leu Glu Leu Glu Val Glu
 35 40 45
 Asp Arg Met Thr Ala Asp Gln Trp Arg Gly Glu Phe Asp Ala Gly Phe
 50 55 60
 Ile Glu Asp Leu Thr His Lys Thr Gly Asn Phe Lys Gln Phe Asn Ile
 65 70 75 80
 Phe Cys His Met Leu Glu Ser Ala Leu Thr Gln Ser Ser Glu Ser Val
 85 90 95
 Thr Leu Asp Leu Leu Thr Tyr Thr Asp Leu Glu Ser Leu Arg Asn Arg
 100 105 110
 Arg Trp Gly Ala Ala Xaa Ser Leu Ala Pro Arg Ser Ala Gln Leu Asn
 115 120 125
 Ser Lys Arg Tyr Leu Ile Leu Ile Tyr Ser Val Glu Phe Asp Arg Ile
 130 135 140
 His Tyr Pro Leu Pro Leu Pro Tyr Gln Gly Lys Pro Asp Pro Val Val
 145 150 155 160
 Leu Gln Gly Ile Ile Arg Ser Leu Lys Glu Glu Leu Gly Arg Leu Pro
 165 170 175
 Ser Pro Cys Pro Gly Pro Val Pro Pro Ala Ala Pro Gly Gly Leu Arg
 180 185 190
 Cys Val Arg Pro
 195

<210> 4379

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3983

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4379

Xaa	Xaa	Xaa	Xaa	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
1				5				10					15		

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
			20					25					30		

Ser	Ala	Arg	Glu	Lys	Asn	Tyr	Leu	Tyr	Ile	Thr	Leu	Lys	Gly	Val	Glu
		35					40					45			

Gly	Leu	Phe	Ala	Glu	Leu	Leu	Arg	Leu	Lys	Tyr	Thr	Leu	Phe	Leu	Glu
	50					55					60				

Lys	Ile	Thr	Asp	Phe	Leu
65					70

<210> 4380

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4380

Arg	Xaa	Trp	Glu	Thr	Ala	His	Pro	Asp	Leu	Pro	Met	Ser	Gln	Asn	Lys
1				5					10					15	

His	Met	Tyr	Ser	Gly	Ser	Phe	Ser	Phe	Ser	Asn	Thr	Leu	Pro	Gln	Lys
			20					25					30		

Gln	Val	Val	Cys	Pro	Arg	His	Lys	Glu	Gly	Lys	Leu	Ala	Ile	Phe	Pro
			35				40					45			

3984

Thr Ser Lys Phe Cys Lys Ile Ile Asp Leu Leu Lys Arg Phe Leu Phe
50 55 60

Ile Ile Pro Thr Leu Cys Lys Trp Lys Gly His Cys Val Pro Cys Val
65 70 75 80

Ser Ser Leu Gln Arg Leu Cys Pro Leu Ala Cys Phe Val Thr Ile Ser
85 90 95

Leu Gly Glu Glu Trp Val His Pro Ala Pro Arg Pro Val Val Ala Arg
100 105 110

Gly Leu Pro Cys Glu Phe
115

<210> 4381
<211> 23
<212> PRT
<213> Homo sapiens

<400> 4381
Glu Gln Val Val Ser Ile Phe Leu His Tyr Leu Phe Leu Glu Thr His
1 5 10 15

Lys Met Asp Cys Ile Phe Leu
20

<210> 4382
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

3985

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4382

Glu	Tyr	Ile	Lys	Asn	Ser	Gln	Asn	Asn	Ser	Thr	Cys	Glu	Tyr	Gly	Ala
1				5					10					15	

Pro	Cys	Lys	Tyr	Ile	Arg	Lys	Pro	Ile	Asp	Tyr	Thr	Val	Leu	Asp	Asp
			20					25					30		

Val	Gly	His	Gly	Val	Lys	Trp	Leu	Lys	Ala	Lys	His	Gly	Asn	Asn	Gln
		35					40					45			

Pro	Ala	Arg	Thr	Gly	Thr	Leu	Ser	Arg	Thr	Asn	Pro	Pro	Thr	Gln	Lys
	50					55					60				

Pro	Pro	Ser	Pro	Pro	Met	Ser	Gly	Arg	Gly	Thr	Leu	Gly	Arg	Asn	Thr
65					70					75				80	

Pro	Tyr	Lys	Thr	Leu	Glu	Pro	Val	Lys	Pro	Pro	Thr	Val	Pro	Asn	Asp
				85					90					95	

Tyr	Met	Thr	Ser	Pro	Ala	Arg	Leu	Gly	Ser	Gln	His	Ser	Pro	Gly	Arg
			100					105					110		

Thr	Ala	Ser	Leu	Asn	Gln	Arg	Pro	Arg	Thr	His	Ser	Gly	Ser	Ser	Gly
		115					120					125			

Gly	Ser	Gly	Lys	Phe	Glu	Glu	Asn	Ser	Gly	Ser	Ser	Ser	Xaa	Gly	Xaa
	130						135				140				

Pro	Xaa	Ala	Val	Pro	Thr	Pro	Ser	Ala	Pro	Xaa	Ile	Leu	Lys	Pro	Phe
145					150					155					160

Val	Asp	Xaa	Ser	Asn	Phe	His	Arg	His	His	Phe	Xaa	Pro
				165				170				

3986

<210> 4383

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4383

Leu Glu Val Asp Trp Ser Leu Phe Asp Gly Phe Ala Asp Gly Leu Gly
1 5 10 15

Val Ala Glu Ala Ile Ser Tyr Val Asp Pro Gln Phe Leu Thr Tyr Met
20 25 30

Ala Leu Glu Glu Arg Leu Ala Gln Ala Met Glu Thr Ala Leu Ala His
35 40 45

Leu Glu Ser Leu Ala Val Asp Val Glu Val Ala Asn Pro Pro Ala Ser
50 55 60

Lys Glu Ser Ile Asp Ala Leu Pro Glu Ile Leu Val Thr Glu Asp His
65 70 75 80

Gly Ala Val Gly Gln Glu Met Cys Cys Pro Ile Cys Cys Ser Glu Tyr
85 90 95

Val Lys Gly Glu Val Ala Thr Glu Leu Pro Cys His His Tyr Phe His
100 105 110

Lys Pro Cys Val Ser Ile Trp Leu Gln Lys Ser Gly Thr Cys Pro Val
115 120 125

Cys Arg Cys Met Phe Pro Pro Pro Leu
130 135

<210> 4384

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

3987

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4384

Xaa	Pro	Xaa	Leu	Gly	Arg	Ser	Gln	Xaa	Glu	Pro	Pro	Leu	Ser	Ala	Ser
1				5					10					15	

Xaa	Pro	Pro	Ala	Ser	Gln	Pro	Pro	Gln	Met	Arg	Phe	Leu	Pro	Leu	Pro
			20					25					30		

Pro	Arg	Asn	Gln	Asn	Pro	His	Cys	Ser	Gln	Asp	Gly	Leu	Ile	Tyr	Lys
		35					40					45			

Pro	Asp	Thr	Cys	Ser
				50

<210> 4385

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4385

Gly	Arg	Gly	Xaa	Val	Asn	Ile	Leu	Ser	Ala	Leu	Phe	Pro	Arg	Gly	Ile
1				5					10					15	

Asn	Ile	Lys	Val	Met	Asp	Ile	Leu	Lys	Ser	Gln	Phe	Asn	Phe	Phe	Leu
			20					25					30		

3988

Phe Thr Met Gln Tyr Ser Arg Gly Thr Ser Asn Val Asp Leu Val Phe
 35 40 45

Ser Ser Ser Asn Ala Leu Ile Thr Leu Pro His Arg Val Val Val Gly
 50 55 60

Xaa Asn Lys Thr Leu Trp Xaa Gln Lys Lys
 65 70

<210> 4386
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 4386
 Glu Ala Ser Gly Gln Val Leu Pro Pro Asn Leu Lys Thr Leu Gly Met
 1 5 10 15

Gln Leu Gly Arg Asp Leu Ser Arg Phe Cys Leu Asp Lys Gln Val Arg
 20 25 30

Met Ala Glu His Trp Leu Ile Val Asn Gln Cys Phe Phe Ile Tyr Leu
 35 40 45

Lys Tyr Ser Gln Gln Leu Ile Leu Arg Ser Phe Leu Lys Val Leu His
 50 55 60

Leu His Pro His Asn Ser Pro Ile Gln Asn Met Glu Gln Gly Cys Gly
 65 70 75 80

Ala Val

<210> 4387
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4387
 Gly Asp Ser Val Ser Lys Lys Lys Lys Lys Xaa Val Pro Thr Val Tyr
 1 5 10 15

3989

Val Trp Ala Leu Val Leu Glu Pro Val Leu Lys Glu Ser Gly Gln Ala
 20 25 30

Gln Trp Leu Thr Pro Val Ile Ser Ala His Trp Glu Ala Glu Val Gly
 35 40 45

Gly Ser Pro Glu Val Arg Ser Ser Arg Pro Ala Trp Pro Thr Trp
 50 55 60

<210> 4388

<211> 107

<212> PRT

<213> Homo sapiens

<400> 4388

Lys Lys Lys Lys Leu Pro Ile Val Thr Leu Ala Val Leu Ile Asn Lys
 1 5 10 15

Arg Cys Cys Val Arg Ser Pro Val Ser Val Trp Ile Gln Gln Leu Ser
 20 25 30

Arg Glu Ser His Cys Met Gly Val Glu Leu Thr Val Leu Val Ile Cys
 35 40 45

Lys Pro Pro Arg Pro Asn Leu Arg Val Tyr Leu Gly Phe Ser Val Cys
 50 55 60

Pro Leu Gly Phe Cys Phe Thr Leu Phe Trp Cys Arg Phe Ser Ile Tyr
 65 70 75 80

Ser Gln Ile Ser Phe Met Met Phe Lys Thr Phe Thr Asp Val Lys Trp
 85 90 95

Arg Lys Gly Thr Glu Lys Lys Ile Phe Thr Lys
 100 105

<210> 4389

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

3990

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4389

Leu	Pro	Gly	Ser	Cys	His	Ser	Pro	Ala	Ser	Ala	Ser	Arg	Val	Ala	Gly
1				5				10					15		

Thr	Thr	Gly	Thr	Cys	His	His	Thr	Arg	Leu	Leu	Phe	Tyr	Ile	Phe	Ser
		20						25					30		

Xaa	Asp	Xaa	Phe	His	His	Val	Ser	Gln	Asp	Gly	Leu	Asp	Leu	Leu	Thr
	35						40					45			

Ser

<210> 4390

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4390

Pro	Gln	Ser	Val	Ala	Ala	Gly	Ser	Thr	Ala	Leu	Gly	Ser	Asp	Thr	Val
1				5				10						15	

Met	Val	Pro	Met	Ile	Gly	Gln	Asp	Leu	Xaa	Gly	Glu	Thr	Gln	Glu	Thr
		20						25					30		

Arg	Pro	Cys	Ser	Ser	Arg	Pro	Glu	Gly	Arg	Gly	Ala	Pro	Glu	Leu	Gly
		35					40					45			

Ser	Gly	Met	Pro	His	Ser	Leu	Ala	Thr	Cys	Phe	Gly	Tyr	Ala	Pro	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

3991

50 55 60
 Ser Ser Cys Thr Trp Leu Pro Arg Glu Asn Ser Asp Leu Ser Gly Lys
 65 70 75 80
 Trp Ser Gln Trp Leu Cys Gly Arg Pro Phe Leu Gln Pro Gly Xaa Gln
 85 90 95
 Ser Gly Phe Pro Trp Asp Cys Val Ala Pro Val Pro Thr Gly Leu Pro
 100 105 110
 Ile Pro His Ser His Cys Trp Thr Xaa Thr Arg Thr Gly His Arg Ala
 115 120 125
 Ser Phe Cys
 130

<210> 4391
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 4391
 Lys Thr Val Leu Arg Asp Ser Leu Val Phe Gly Thr Leu Arg Ser Ser
 1 5 10 15
 Leu Gly Arg Ser Leu Ala Leu Ile Val Val Leu Lys Arg Val Leu Ser
 20 25 30
 Gly Leu Glu Pro Met Leu Ser Leu Leu Phe Met Gly Phe His Asn Ile
 35 40 45
 Leu Lys Leu Phe Val
 50

<210> 4392
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 4392
 Val Phe Gln His Tyr Leu Phe Asp Gln Ser Lys Ile His Phe Pro Ser
 1 5 10 15
 Leu Gln Thr Glu His Asn Tyr Ser Cys Leu His Ile His Ile Phe Asp
 20 25 30

3992

Val Pro Thr Phe Cys Ile Leu His Glu Thr Phe Gly Leu Asn Lys Ile
 35 40 45

Leu Arg Ile Leu Tyr Phe Val Ser His Leu Pro Ser Cys Ser Leu Pro
 50 55 60

Ser Ser Lys Asp Val Leu Tyr
 65 70

<210> 4393

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4393

Ser Ser Arg Pro Gln Trp Gln Pro Cys Gly Lys Trp Pro Thr Lys Pro
 1 5 10 15

Tyr Pro Gly Ser Pro Asn Thr Leu Cys Leu Glu Pro Leu Leu Arg Val
 20 25 30

Tyr Ser Leu Arg Gly Leu Cys Gly Arg Ser Met Leu Gln Phe Lys His
 35 40 45

Val Ser Thr Thr Leu Leu Arg Ala Ala Trp Glu Arg Thr Gly His Gln
 50 55 60

Asp Tyr Leu Phe Lys Tyr Lys Lys Arg Gly Lys His Thr His Gly Lys
 65 70 75 80

Lys Ile Val Ser Thr Phe Phe Val Lys Pro Met Ser Val Leu Leu His
 85 90 95

Thr Phe His Val Val Leu Cys Lys Cys Leu Ile Cys Val Ile Lys Leu
 100 105 110

Met Gln Val Lys Lys Lys Lys Lys Met Gly Glu Val Ile Pro Cys Xaa
 115 120 125

Val Ile Ser Leu Leu Arg Val
 130 135

3993

<210> 4394

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4394

Ala Thr Ala Ser Arg Thr Arg Leu Ala Val His Glu Arg Ala Arg Pro
 1 5 10 15

Gly Trp Arg Trp Gly Arg Ala Glu Ala Ala Glu Val Leu Arg Ala Thr
 20 25 30

Gly Gly Trp Gln Trp Ala Gly Glu Arg Gly Arg Gln Ala Arg Leu Gly
 35 40 45

Leu Gly Leu Trp Arg Arg Gly Thr Leu Cys Leu Gly Ser Leu Thr Ala
 50 55 60

Pro Pro Gly Ser Pro Glu Arg Gly Thr Gly Gly Glu Gly Gly Gly Ser
 65 70 75 80

Trp Ala Pro Cys Ala Ala Gly Pro Arg Gly Ala Arg Val Ala Ala Gly
 85 90 95

Ser Ala Gly Pro Asp Arg Val Asn Gly Arg Ala Trp Pro Val Pro Arg
 100 105 110

Gly Ala Pro Ala Ala Thr Ala Leu Ala Ala Gly Thr Gly Val Leu Arg
 115 120 125

Gly Arg Ser Leu Pro Phe
 130

<210> 4395

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3994

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4395

Ile Lys Ile Thr Ser Ile Cys Glu Leu Asn Phe Ile Ile Cys His Phe
1 5 10 15

Val Glu Ser Thr Leu His Xaa Leu Val Xaa Leu Glu Leu Ile Val Thr
20 25 30

Thr Arg Leu Tyr Asp Asn Ser Val Leu Xaa Leu Ile Pro Ile Ile
35 40 45

<210> 4396

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4396

Ile Ser Leu Asn Pro Cys Tyr Val Phe Phe Phe Ser Gln Val Leu Gln
1 5 10 15

Asn Asp Tyr Cys Thr Trp Ser Ile Val Leu Ile Val Asn Phe Val Ile
20 25 30

Asn Leu Leu Cys Val Lys Arg Gly
35 40

<210> 4397

<211> 33

<212> PRT

<213> Homo sapiens

<400> 4397

Asp Pro Arg Val Arg Pro Arg Val Arg Lys Thr Glu Arg Asp Arg Lys
1 5 10 15

Glu Lys Leu Ile Gln Glu Gly Lys Leu Asp Arg Thr Phe His Leu Ser
20 25 30

Tyr

<210> 4398

3995

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4398

His Glu Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys
 1 5 10 15

Pro Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser
 20 25 30

Ser Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu
 35 40 45

Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe
 50 55 60

Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln
 65 70 75 80

Leu Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu
 85 90 95

Val Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg
 100 105 110

Asp Pro Ala Ala Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr
 115 120 125

Ser Ser Ala Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn
 130 135 140

Pro Arg Gly Phe Tyr Arg Pro Gly Ala Arg Gly Asp His Tyr Ala Arg
 145 150 155 160

Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro Phe Pro Pro Glu Lys Arg
 165 170 175

Ala Lys Arg Gly Asn Ile His Pro Pro Arg Asp Pro Asn Pro Pro Gln
 180 185 190

Leu Gln Val Leu Pro Ser Gly Ala Gly Pro Arg Ala Gln Thr Leu Asn
 195 200 205

Pro Asn Ala Leu Ile His Pro Val Ser Thr Val Thr Asp His Arg Ser
 210 215 220

Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu Gly Ser Ser Ser Phe Ile
 225 230 235 240

Gln Trp Gly Leu Ala Trp Leu Asp Ser Val Phe Asp Leu Val Met Val

3996

	245		250		255
Ala Glu Tyr Phe Asp Glu Ser Leu Val Leu Leu Ala Asp Ala Leu Cys	260		265		270
Trp Gly Leu Asp Asp Val Val Gly Phe Met His Asn Ala Gln Ala Gly	275		280		285
His Lys Gln Gly Leu Ser Thr Val Ser Asn Ser Gly Leu Thr Ala Glu	290		295		300
Asp Arg Gln Leu Thr Ala Arg Ala Arg Ala Trp Asn Asn Leu Asp Trp	305		310		315
Ala Leu Tyr Val His Phe Asn Arg Ser Leu Trp Ala Arg Ile Glu Lys	325		330		335
Tyr Gly Gln Gly Arg Leu Gln Thr Ala Val Ala Glu Leu Arg Ala Arg	340		345		350
Arg Glu Ala Leu Ala Lys His Cys Leu Val Gly Gly Glu Ala Ser Asp	355		360		365
Pro Lys Tyr Ile Thr Asp Arg Arg Phe Arg Pro Phe Gln Phe Gly Ser	370		375		380
Ala Lys Val Leu Gly Tyr Ile Leu Arg Ser Gly Leu Ser Pro Gln Asp	385		390		395
Gln Glu Glu Cys Glu Arg Leu Ala Thr Pro Glu Leu Gln Tyr Lys Asp	405		410		415
Lys Leu Asp Ala Lys Gln Phe Pro Pro Thr Val Ser Leu Pro Leu Lys	420		425		430
Thr Ser Arg Pro Leu Ser Pro	435				

<210> 4399

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4399

Leu Val Asn Ser Met Thr Pro His Phe Arg Cys Leu Asn Thr Trp Tyr					
1		5		10	15

Thr Arg Gln Tyr Lys Pro Ser Ala Ser Asn Ala Phe Met Val Cys Gly					
20		25		30	

3997

Val Leu Tyr Ala Thr Arg Thr Met Asn Thr Arg Thr Glu Glu Ile Phe
 35 40 45

Tyr Tyr Tyr Asp Thr Asn Thr Gly Lys Glu Gly Lys Leu Asp Ile Val
 50 55 60

Met His Lys Met Gln Glu Lys Val Gln Ser Ile Asn Tyr Asn Pro Phe
 65 70 75 80

Asp Gln Lys Leu Tyr Val Tyr Asn Asp Gly Tyr Leu Leu Asn Tyr Asp
 85 90 95

Leu Ser Val Leu Gln Lys Pro Gln
 100

<210> 4400

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4400

Leu Pro Ser Pro Phe Leu Glu Thr Val Ser Thr Val Asp Ser Gly Ala
 1 5 10 15

Pro Thr Asp Leu Ala Gln Leu Pro Thr Val Leu Lys Gln Pro Cys Cys
 20 25 30

Ser Val Met Ala Ser Gly Gln Phe Val Asn Lys Leu Gln Glu Glu Val
 35 40 45

Ile Cys Pro Ile Cys Leu Asp Ile Leu Gln Lys Pro Val Thr Ile Asp
 50 55 60

Cys Gly His Asn Phe Cys Leu Lys Cys Ile Thr Gln Ile Gly Glu Thr
 65 70 75 80

Ser Cys Gly Phe Phe Lys Cys Pro Leu Cys Lys Thr Ser Val Arg Lys
 85 90 95

Asn Ala Ile Arg Phe Asn Ser Leu Leu Arg Asn Leu Val Glu Lys Ile
 100 105 110

Gln Ser Ser Thr Xaa Pro Leu Arg Cys Ser Pro Lys Gly Lys Glu Ala

3998

115 120 125
Thr Leu Pro Glu Ala Pro Gly Asp Val Pro Leu Phe Leu Arg Gly
130 135 140

<210> 4401

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4401

Arg Met Glu Thr Ser Val Ile Lys Asp Ile Leu Phe Leu Thr Leu Ser
1 5 10 15

Arg Leu Leu Thr Cys Ser Leu Asp Tyr Asn Pro Thr Cys Lys Lys Asn
20 25 30

Leu Lys Met Val Met Arg Lys Val Arg Tyr Ile Tyr Ile Tyr Val Leu
35 40 45

Xaa Phe

50

<210> 4402

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4402

Asn Ser Ala Arg Glu Arg Pro Ser Ser Val Lys Ser Leu Arg Ser Glu
1 5 10 15

Arg Leu Ile Arg Thr Ser Leu Asp Leu Glu Leu Asp Leu Gln Ala Thr
20 25 30

Arg Thr Trp His Ser Gln Leu Thr Gln Glu Ile Ser Val Leu Lys Glu
35 40 45

Leu Lys Glu Gln Leu Glu Gln Ala Lys Ser His Gly Glu Lys Glu Leu
50 55 60

Pro Gln Trp Leu Arg Glu Asp Glu Arg Phe Arg Leu Leu Leu Arg Met

3999

65

70

75

80

Leu Glu Lys Arg Met Asp Arg Ala Asp Thr Arg Val Ser Phe Arg Gln
 85 90 95

Thr Arg

<210> 4403

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4403

Thr Lys Phe Xaa Gly Pro Leu Asn His Leu Asn Gly Leu Pro Ser Gly
 1 5 10 15

Pro Gly His Ser Lys Ile Lys Pro Glu Arg Leu Val Gln Ala Met Met
 20 25 30

Gly Ser Gly Ser Arg Thr Cys Leu Ile Ile Pro Ser Ser Ile Asn Ile
 35 40 45

Asn Thr Asp Leu Lys Ala Asp Lys Lys His Leu Gln Ser Ile Leu Ser
 50 55 60

Glu Val Phe Tyr Leu Glu Ala Ser Ser Ala
 65 70

<210> 4404

<211> 305

<212> PRT

<213> Homo sapiens

<400> 4404

Pro Ser Ser His Phe Ala Ser Ile Phe Glu Glu Ser His Val Pro Val
 1 5 10 15

Ile Glu Glu Ser Leu Arg Val Gln Ile Cys Glu Lys Ala Glu Glu Leu
 20 25 30

Lys Asp Ile Val Pro Glu Lys Lys Ser Thr Leu Asn Glu Asn Gln Pro

4000

35 40 45
 Glu Ile Lys His Gln Ser Leu Leu Gln Lys Asn Val Ser Lys Arg Asp
 50 55 60
 Pro Pro Ser Ser His Gly His Ser Asn Lys Lys Asn Leu Leu Lys Val
 65 70 75 80
 Glu Asn Gly Val Thr Arg Arg Gly Arg Ser Val Ser Pro Lys Lys Pro
 85 90 95
 Ala Ser Gln His Ser Glu Glu His Leu Asp Lys Ile Pro Ser Pro Leu
 100 105 110
 Lys Asn Asn Pro Lys Arg Arg Pro Arg Asp Gln Ser Leu Ser Pro Ser
 115 120 125
 Lys Gly Glu Asn Lys Ser Cys Gln Val Ser Thr Arg Ala Gly Ser Gly
 130 135 140
 Gln Asp Gln Cys Arg Lys Ser Arg Val Val Ala Ser Pro Lys Lys Gln
 145 150 155 160
 Gln Lys Ile Glu Gly Ser Lys Ala Pro Ser Asn Ala Glu Ala Lys Leu
 165 170 175
 Leu Glu Gly Lys Ser Arg Arg Ile Ala Gly Tyr Thr Gly Ser Asn Ala
 180 185 190
 Glu Gln Ile Pro Asp Gly Lys Glu Lys Ser Asp Val Ile Arg Lys Asp
 195 200 205
 Ala Lys Gln Asn Gln Leu Glu Lys Ser Arg Thr Arg Ser Pro Glu Lys
 210 215 220
 Lys Ile Lys Arg Met Val Glu Lys Ser Leu Pro Ser Lys Met Thr Asn
 225 230 235 240
 Lys Thr Thr Ser Lys Glu Val Ser Glu Asn Glu Lys Gly Lys Lys Val
 245 250 255
 Thr Thr Gly Glu Thr Ser Ser Ser Asn Asp Lys Ile Gly Glu Asn Val
 260 265 270
 Gln Leu Ser Glu Lys Arg Leu Lys Gln Glu Pro Glu Glu Lys Val Val
 275 280 285
 Ser Asn Lys Thr Glu Asp His Lys Gly Lys Glu Leu Glu Ala Ala Val
 290 295 300
 Gln

4001

305

<210> 4405

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4405

Ser	Ser	Asn	Arg	Phe	Val	Phe	Lys	Asp	Pro	Asn	Arg	Phe	Val	Ile	Leu
1				5					10					15	

Asn	Lys	His	Val	Ala	Ile	Tyr	Lys	Thr	Cys	Leu	Lys	Val	Leu	Leu	Ser
			20					25					30		

Pro	Trp	Asn	Phe	Phe	Leu	Tyr	Phe	Met	Leu	Ile	Tyr	Leu	Xaa	Phe	Tyr
		35					40					45			

Ser	Leu	Ile	Ile	Ala	Leu	Glu	Arg	Pro	His	His	Cys	Leu	His	Gly	Asn
	50					55					60				

Val	Val	Gly	Thr	Asn	Thr	Trp
65					70	

<210> 4406

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

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4002

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4003

<400> 4406

Ile Ser Cys Asn Tyr Cys Ser Cys Xaa Asn Ser Cys Glu Trp Leu Xaa
1 5 10 15

Val Xaa Leu Xaa Val Leu Gly Xaa Xaa Trp Tyr Thr Phe Val Gly Cys
20 25 30

Xaa Leu Lys Glu Xaa Ala Xaa Pro Val Cys Ser Leu Tyr His Thr Xaa
35 40 45

Leu Pro Leu Thr Ser Leu Gly Leu Leu Xaa Ser Lys Phe Cys Lys Pro
50 55 60

Phe Ser Gln Val Gln Arg Tyr Ile Leu Thr Leu Ser Ser Pro Xaa Leu
65 70 75 80

Leu Ser Arg Asn Phe Xaa
85

<210> 4407

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4407

Ser Ala Cys Leu Gly Leu Pro Lys Cys Trp Asp Tyr Arg His Glu Pro
1 5 10 15

Pro His Val Ala His Phe Phe Phe Ile Ser Glu Phe Val Val Phe Thr
20 25 30

Leu Phe

<210> 4408

<211> 148

<212> PRT

<213> Homo sapiens

<220>

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (21)

4004

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4408

Glu Ile Gly Tyr Leu Met Ser Lys Glu Xaa Asn Tyr Lys Arg Thr Arg
1 5 10 15

Glu Tyr Ile Arg Xaa Leu Lys Xaa Val Pro Ser Ile Pro Tyr Leu Gly
20 25 30

Ile Tyr Leu Leu Xaa Leu Ile Tyr Ile Xaa Ser Ala Tyr Pro Ala Ser
35 40 45

Gly Val Ile Met Glu Asn Glu Gln Arg Ser Asn Gln Met Asn Asn Ile
50 55 60

Leu Arg Ile Ile Ala Asp Leu Gln Val Ser Cys Ser Tyr Asp His Leu
65 70 75 80

Thr Thr Leu Pro His Val Gln Lys Tyr Leu Lys Ser Val Arg Tyr Ile
85 90 95

Glu Glu Leu Gln Lys Phe Val Glu Asp Asp Asn Tyr Lys Leu Ser Leu
100 105 110

Arg Ile Glu Pro Gly Ser Ser Ser Pro Arg Leu Val Ser Ser Lys Glu
115 120 125

Asp Leu Ala Gly Pro Ser Ala Gly Ser Gly Ser Ala Arg Phe Ser Arg
130 135 140

Arg His Leu Ser
145

<210> 4409

4005

<211> 63
<212> PRT
<213> Homo sapiens

<220>
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<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4409
Thr Pro Tyr Val Ser Leu Arg Ile Leu Tyr Asp Ser Glu Phe Ser Ile
1 5 10 15
Ser Xaa Lys Trp Ser His Phe Cys Phe Val Pro Tyr Asn Ser Thr Glu
20 25 30
Ser Phe Phe Phe Xaa Arg Lys Gly Val Gly Lys Gly Lys Trp Glu Lys
35 40 45
Thr Trp Asn His Ile Pro Leu Phe Gly Ala Ala Arg Gln Glu Phe
50 55 60

<210> 4410
<211> 83
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4006

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4410

Ile	Xaa	Arg	Lys	Ala	Lys	Ile	Ser	Trp	Trp	Lys	Ser	Glu	Val	Thr	Arg
1				5					10					15	

Arg	Ser	Phe	Trp	Ser	Arg	Val	Leu	Met	Ser	Ala	Ala	Pro	Ala	Lys	Pro
		20						25						30	

Leu	Ala	Ser	Cys	Cys	Ala	Xaa	Tyr	Ser	Val	Ser	Lys	Ala	Arg	Ala	Ile
		35					40					45			

Gly	Gln	His	Ser	Pro	Gly	Ser	Xaa	Trp	Ala	Thr	Ser	Ala	Xaa	Phe	Phe
	50					55					60				

Phe	Phe	Phe	Gly	Xaa	Trp	Gln	Arg	His	Gly	Pro	Asn	Gly	His	His	Gln
65					70					75					80

Ser Gly Leu

<210> 4411

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4411

Leu	Asn	Thr	Ser	Tyr	Leu	Tyr	Phe	Phe	Ser	Ile	Ser	Phe	His	Leu	Ser
1				5					10					15	

Val	Ser	Ser	Phe	Ser	His	Asp	Leu	Thr	Cys	Leu	Tyr	Phe	Leu	Leu	Thr
			20					25					30		

Asp	Lys	Ala	Phe	Lys	Asn	Ser
				35		

<210> 4412

<211> 78

<212> PRT

<213> Homo sapiens

4007

<400> 4412

His Phe Arg Glu Gly Gln Gly Ile Met Met Pro Ser Cys Lys Gly Ser
 1 5 10 15

Leu Cys Glu Lys Lys Lys Ser Asn Asn Val Asp Phe Lys Ile Thr Lys
 20 25 30

Asp Ile His Leu Gln Phe Met Lys Gly Lys Cys Ser Leu Asp Thr Lys
 35 40 45

Leu Ile Lys Leu Asp Gln Glu Ile Leu Glu Leu Asn Ala Lys Asn Asn
 50 55 60

Pro Cys Ile Tyr Gly Phe Asp Phe Tyr Ile Phe Pro Ala Ser
 65 70 75

<210> 4413

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4413

Val Pro Ile Ile Leu Lys Asn Ser His Lys Tyr Asn Lys Val His Cys
 1 5 10 15

Phe Arg Val Phe Lys Lys Arg Val Val Pro Lys Ala Ile Leu Thr Leu
 20 25 30

Leu Cys Tyr His Cys Lys Gly Val Ile Cys Met Tyr Tyr Ile Lys Lys
 35 40 45

Lys Thr Leu Asn Ala Leu Leu Ser Pro Lys Tyr Leu Val Asn
 50 55 60

<210> 4414

<211> 121

<212> PRT

<213> Homo sapiens

<220>

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<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (73)

4008

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

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<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4414

Ile	Leu	Glu	Asp	Leu	Glu	Pro	Glu	Cys	Pro	Leu	Thr	Gln	Gln	Ser	His
1				5					10					15	

Tyr	Trp	Leu	Tyr	Thr	Gln	Arg	Xaa	Ile	Asn	His	Ser	Thr	Ile	Lys	Thr
		20					25						30		

Cys	Ala	Phe	Tyr	Tyr	Lys	Asp	Met	Cys	Met	Phe	Ile	Ala	Ala	Leu	Phe
		35					40					45			

Thr	Ile	Ala	Lys	Thr	Trp	Asn	Gln	Pro	Lys	Cys	Pro	Ser	Met	Ile	Asp
	50					55					60				

Trp	Ile	Lys	Lys	Thr	Trp	His	Ile	Xaa	Thr	Met	Glu	Tyr	Tyr	Ala	Ala
65				70					75					80	

Ile	Lys	Lys	Asn	Xaa	Phe	Met	Xaa	Phe	Ala	Gly	Xaa	Trp	Met	Lys	Xaa
			85						90					95	

4009

Glu Thr Ile Ile Leu Xaa Lys Leu Thr Gln Glu Gln Lys Thr Lys His
100 105 110

Xaa Met Leu Ser Leu Ile Ser Gly Ser
115 120

<210> 4415

<211> 20

<212> PRT

<213> Homo sapiens

<400> 4415

Pro Leu Leu Gly Ile Tyr Leu Arg Lys Asn Lys Ala Tyr Ile His Met
1 5 10 15

Lys Thr Cys Lys
20

<210> 4416

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4416

Leu Pro Val Leu Trp Leu Gly Pro Ser Leu Ser Thr Ser Gly Glu Cys
1 5 10 15

Met Cys Leu Ser Asp Gln His His Cys Thr Arg Arg Ser Ser Glu Pro
20 25 30

Leu Ala Lys Cys His Thr His Ser Ser Gln Arg Arg Asp Glu Leu Lys
35 40 45

Leu Tyr Ser Glu Ile Met Lys Pro Glu Pro Val Pro Asp Leu Leu Leu
50 55 60

Pro Leu Ile Glu Leu Leu Cys Asn Ser Lys Phe Lys Ile Arg Ser Arg
65 70 75 80

Glu Arg

<210> 4417

<211> 151

<212> PRT

4010

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4417

Gly Thr Ser Ala Gly Ala Gln Thr Lys Gly Ala Leu Cys Gln Leu Lys
 1 5 10 15

Val Pro Thr Glu Lys Leu Pro Ser Pro Leu Pro Thr Met Ala Asp Glu
 20 25 30

Ile Asp Phe Thr Thr Gly Asp Ala Gly Ala Ser Ser Thr Tyr Pro Met
 35 40 45

Gln Cys Ser Ala Leu Arg Lys Asn Gly Phe Val Val Leu Lys Gly Arg
 50 55 60

Pro Cys Lys Ile Val Glu Met Ser Thr Ser Lys Thr Gly Lys His Gly
 65 70 75 80

His Ala Lys Val His Leu Val Gly Ile Asp Ile Phe Thr Gly Lys Lys
 85 90 95

Tyr Glu Asp Ile Cys Pro Ser Thr His Asn Met Asp Val Pro Asn Ile
 100 105 110

Lys Arg Asn Asp Tyr Gln Leu Ile Cys Ile Gln Asp Gly Tyr Leu Ser
 115 120 125

Leu Leu Thr Glu Thr Gly Glu Val Arg Glu Asp Leu Lys Leu Pro Glu
 130 135 140

Gly Xaa Thr Arg Gln Arg Lys
 145 150

<210> 4418

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4418

Asp Glu Glu Thr Val Lys Thr Pro Arg Lys Lys Thr Cys Val His Phe
 1 5 10 15

Ser Gly Lys Phe Ser Asn Cys Val Ile Gln Phe Ser Phe Asn Tyr Ile
 20 25 30

4011

Ile Trp Leu Tyr Ala Leu Lys Asn Ile Cys Leu Asn Val Pro Gly Phe
 35 40 45

Leu Leu Val Leu Glu Ser Ala Glu Cys Trp Leu Cys Ser His Ser Tyr
 50 55 60

Phe Cys Ile Gln Lys Gly Val Thr Pro Phe Ile
 65 70 75

<210> 4419

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4419

Val Lys Ala Thr Cys Leu Gly Phe Leu Asn His Ile Asn Cys Tyr Ile
 1 5 10 15

Leu Tyr Phe Ile Ile Ile Leu Cys Val Ser Val Tyr Trp Asn Asn Met
 20 25 30

Phe Tyr Leu Val Ser Trp Cys Lys Ser Phe Leu Asn Leu Leu Leu Tyr
 35 40 45

<210> 4420

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4420

Tyr Ala Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser
 1 5 10 15

Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys
 20 25 30

Arg Asn Ser Ala Arg Val
 35

<210> 4421

<211> 59

4012

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4421

Ser Cys Gln Ser Leu Asp Xaa Glu Val Ser Gly Lys Ser Leu Lys Tyr
 1 5 10 15

Ala Phe Asp Thr Gly Lys Tyr Ile Leu Leu Met Phe His Lys Arg Ile
 20 25 30

Leu Glu Ser Val Glu Asn Ile Asn Tyr Phe His Glu Leu Phe Leu Lys
 35 40 45

Tyr Asn Phe Lys Val Leu Ile Phe Leu Phe Lys
 50 55

<210> 4422

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4422

Glu Val Ile Gln Ile Thr Phe Val Val Val Ile Phe Asn Tyr Ser Ser
 1 5 10 15

Thr Leu Thr His Asp Glu Leu Arg Asn Ile Lys Asp Asn Cys Cys Leu
 20 25 30

Asn Ser Thr Pro Arg Asp Thr Asp Leu Ile Gly Leu Gly Trp Arg Ser
 35 40 45

Gly Met Val Val Phe Phe Lys Leu Gln Ser Ser Ala Arg Gln Leu Leu
 50 55 60

Tyr Val Gly Phe
 65

<210> 4423

<211> 160

<212> PRT

<213> Homo sapiens

4013

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 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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 <222> (63)
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<220>
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 <222> (69)
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<220>
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<400> 4423
 Gly Pro Gly Lys Arg Arg Leu Gln Gly Arg Ser Arg Gly His Met Ala
 1 5 10 15
 Glu Gly Asp Ala Arg Ser Asp Gln Arg His Asn Glu Glu Ile Glu Ala
 20 25 30
 Met Ala Pro Ile Tyr Gly Glu Glu Trp Cys Val Ile Asp Asp Cys Ala
 35 40 45
 Lys Ile Phe Cys Ile Arg Ile Xaa Asp Asp Xaa Asp Asp Pro Xaa Trp
 50 55 60
 Thr Leu Cys Leu Xaa Val Met Leu Pro Asn Glu Tyr Pro Gly Thr Ala
 65 70 75 80
 Pro Pro Ile Tyr Gln Leu Asn Ala Pro Trp Leu Lys Gly Gln Glu Arg
 85 90 95
 Ala Asp Leu Ser Asn Ser Leu Glu Glu Ile Tyr Ile Gln Asn Ile Gly
 100 105 110

4014

Glu Ser Ile Leu Tyr Leu Trp Val Glu Glu Asn Lys Arg Cys Ser Tyr
 115 120 125

Tyr Lys Asn Leu Gln Val Thr Glu Pro Gly Pro Asp Val Lys Gly Gly
 130 135 140

Lys Leu Xaa Glu Glu Asp Val Gly Met Trp Lys Val Asp Xaa His Phe
 145 150 155 160

<210> 4424

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4424

Gly Leu Thr Ile Lys Xaa Ile Glu Lys Glu Thr Leu His Gly Met Ser
 1 5 10 15

Phe Ile Pro Pro Pro Asn Lys Val Leu Lys Val Phe Ile Leu Pro Ser
 20 25 30

Ile Phe Leu Lys Leu Phe Tyr Lys Arg Asp Phe Val Glu Val Pro Arg
 35 40 45

Phe Cys Gln Thr Ser Ser Ser Leu Thr Arg Leu Arg Gly Pro Cys Gln
 50 55 60

Gln Ser Asn Leu Arg Asp
 65 70

<210> 4425

<211> 262

<212> PRT

<213> Homo sapiens

<400> 4425

Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro
 1 5 10 15

4015

Ser Leu Gly Glu Val Ser Ser Ser Thr Met Lys Gly Ile Leu Val Ala
 20 25 30
 Gly Ile Thr Ala Val Leu Val Ala Ala Val Glu Ser Leu Ser Cys Val
 35 40 45
 Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser Glu
 50 55 60
 Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ser Ala Ser Ser
 65 70 75 80
 Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser Ala
 85 90 95
 Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His Val
 100 105 110
 Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Gln Gly Lys
 115 120 125
 Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn Val
 130 135 140
 Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr Ser
 145 150 155 160
 Cys His Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val Phe
 165 170 175
 Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val Leu
 180 185 190
 Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser Gly
 195 200 205
 Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys Ala
 210 215 220
 Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His Asn
 225 230 235 240
 Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu Leu
 245 250 255
 Leu Arg Gly Leu Leu Pro
 260

4016

<210> 4426

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4426

Gln Leu Lys His Val Phe Ser Gln Glu Lys Met Thr Val Leu Met Met
1 5 10 15

Tyr Leu Met Asn Leu Asn Phe Lys Ser Gly Ala Ala Asn Trp Lys Glu
20 25 30

Asp Leu Trp Cys Phe Lys Leu Leu Trp Thr Leu Leu Arg Asn Leu Glu
35 40 45

Pro Met Glu Pro Leu Phe Ile Ala Met Gln Ile Thr Ile Leu Asn Glu
50 55 60

Cys Phe Leu Lys Ile Lys Tyr
65 70

<210> 4427

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4427

Ser Leu Lys Pro Ser Glu Lys Asn Ile Phe Thr Leu Phe Met Val Ala
1 5 10 15

Thr Ala Ala Ile Cys Ile Leu Leu Asn Xaa Val Glu Xaa Ile Tyr Leu
20 25 30

Xaa Ser Lys Arg Cys His Glu Cys Leu Ala Ala Arg Lys Ala Gln Ala

35

45

Pro Pro Leu Leu Pro Asp Arg Pro Arg Asp His Val Lys Lys Thr Ile
85 90 95

Leu

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<210> 4428
<211> 353
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
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<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 4428
Val Cys Ala Val Leu His Leu Gly Leu Leu Leu Ala Ala Trp Pro His
  1             5             10            15
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Xaa Ala Glu Pro Phe Pro Leu His Pro Leu Pro Ala Pro Gly Pro Ala
20 25 30

Pro Gly Thr Pro Ser Asp Xaa His Pro Leu Gln Pro Trp Gly Ser Leu
35 40 45

4018

Arg Val Ala Ala Lys Ala Xaa Cys Leu Ser Ala Ser Ala Leu Ala Val
 50 55 60
 Ile Ala His Val Leu Cys Cys Cys Ser Val Xaa Thr Met Ser Lys Ser
 65 70 75 80
 Leu Lys Lys Leu Val Glu Glu Ser Arg Glu Lys Asn Gln Pro Glu Val
 85 90 95
 Asp Met Ser Asp Arg Gly Ile Ser Asn Met Leu Asp Val Asn Gly Leu
 100 105 110
 Phe Thr Leu Ser His Ile Thr Gln Leu Val Leu Ser His Asn Lys Leu
 115 120 125
 Thr Met Val Pro Pro Asn Ile Ala Glu Leu Lys Asn Leu Glu Val Leu
 130 135 140
 Asn Phe Phe Asn Asn Gln Ile Glu Glu Leu Pro Thr Gln Ile Ser Ser
 145 150 155 160
 Leu Gln Lys Leu Lys His Leu Asn Leu Gly Met Asn Arg Leu Asn Thr
 165 170 175
 Leu Pro Arg Gly Phe Gly Ser Leu Pro Ala Leu Glu Val Leu Asp Leu
 180 185 190
 Thr Tyr Asn Asn Leu Ser Glu Asn Ser Leu Pro Gly Asn Phe Phe Tyr
 195 200 205
 Leu Thr Thr Leu Arg Ala Leu Tyr Leu Ser Asp Asn Asp Phe Glu Ile
 210 215 220
 Leu Pro Pro Asp Ile Gly Lys Leu Thr Lys Leu Gln Ile Leu Ser Leu
 225 230 235 240
 Arg Asp Asn Asp Leu Ile Ser Leu Pro Lys Glu Ile Gly Glu Leu Thr
 245 250 255
 Gln Leu Lys Glu Leu His Ile Gln Gly Asn Arg Leu Thr Val Leu Pro
 260 265 270
 Pro Glu Leu Gly Asn Leu Asp Leu Thr Gly Gln Lys Gln Val Phe Lys
 275 280 285
 Ala Glu Asn Asn Pro Trp Val Thr Pro Ile Ala Asp Gln Phe Gln Leu
 290 295 300
 Gly Val Ser His Val Phe Glu Tyr Ile Arg Ser Glu Thr Tyr Lys Tyr
 305 310 315 320

4019

Leu Tyr Gly Arg His Met Gln Ala Asn Pro Glu Pro Pro Lys Lys Asn
 325 330 335

Asn Asp Lys Ser Lys Lys Ile Ser Arg Lys Pro Leu Ala Ala Lys Asn
 340 345 350

Arg

<210> 4429

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4429

Gly Thr Arg Gln Asn Gly Pro Ala Ser His Ser Arg Ala Leu Val Gly
 1 5 10 15

Ile Cys Thr Gly His Ser Asn Pro Gly Glu Asp Ala Arg Asp Gly Asp
 20 25 30

Ala Glu Glu Val Arg Glu Leu Gly Thr Val Glu Glu Asn
 35 40 45

<210> 4430

<211> 120

<212> PRT

<213> Homo sapiens

<400> 4430

Phe Leu His Leu Pro Ala Ile Phe Ser Gln Thr Phe Leu Arg Val Arg
 1 5 10 15

Ala Asn Arg Gln Thr Arg Leu Asn Ala Arg Ile Gly Lys Met Lys Arg
 20 25 30

Arg Lys Gln Asp Glu Gly Gln Arg Glu Gly Ser Cys Met Ala Glu Asp
 35 40 45

Asp Ala Val Asp Ile Glu His Glu Asn Asn Asn Arg Phe Glu Glu Tyr
 50 55 60

Glu Trp Cys Gly Gln Lys Arg Ile Arg Ala Thr Thr Leu Leu Glu Gly
 65 70 75 80

Gly Phe Arg Gly Ser Gly Phe Ile Met Cys Ser Gly Lys Glu Asn Pro
 85 90 95

4020

Asp Ser Asp Ala Asp Leu Asp Val Asp Gly Asp Asp Thr Leu Glu Tyr
 100 105 110

Gly Glu Ala Thr Ile His Arg Gly
 115 120

<210> 4431

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (232)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4431

Leu Leu Asp Arg Tyr Arg Glu Leu Gln Leu Ser Thr Glu Ser Lys Val
 1 5 10 15

Thr Glu Phe Leu His Gln Ser Lys Leu Lys Ser Phe Glu Ser Glu Arg
 20 25 30

Val Gln Leu Leu Gln Glu Glu Thr Ala Arg Asn Leu Thr Gln Cys Gln
 35 40 45

Leu Glu Cys Glu Lys Tyr Gln Lys Lys Leu Glu Val Leu Thr Lys Glu
 50 55 60

4021

Phe Tyr Xaa Leu Gln Ala Ser Ser Glu Lys Arg Ile Thr Glu Leu Gln
 65 70 75 80
 Ala Gln Asn Ser Glu His Gln Ala Arg Leu Asp Ile Tyr Glu Lys Leu
 85 90 95
 Glu Lys Glu Leu Asp Glu Ile Ile Met Gln Thr Ala Glu Ile Glu Asn
 100 105 110
 Glu Asp Glu Ala Glu Arg Val Leu Phe Ser Tyr Gly Tyr Gly Ala Asn
 115 120 125
 Val Pro Thr Thr Ala Lys Arg Arg Leu Lys Gln Ser Val His Leu Ala
 130 135 140
 Arg Arg Val Leu Gln Leu Glu Lys Gln Asn Ser Leu Ile Leu Lys Asp
 145 150 155 160
 Leu Glu His Arg Lys Asp Gln Val Thr Gln Leu Ser Xaa Glu Leu Asp
 165 170 175
 Arg Ala Asn Ser Leu Leu Asn Gln Thr Gln Gln Pro Tyr Arg Tyr Leu
 180 185 190
 Ile Glu Ser Val Arg Gln Arg Asp Ser Lys Ile Asp Ser Leu Thr Glu
 195 200 205
 Ser Ile Ala Xaa Leu Gly Glu Arg Met Ser Ala Thr Xaa Asn Lys Glu
 210 215 220
 Lys Ser Ala Leu Leu Gln Thr Xaa Gly Ile Lys Met Ala Leu Gly Phe
 225 230 235 240
 Arg Thr Asn Phe

<210> 4432

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4022

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4432

Ser	Ser	Cys	Cys	Ala	Ser	Leu	Pro	Pro	Thr	Arg	Gly	Glu	Val	Ser	Ala
1				5					10					15	

Xaa	Ser	Leu	Leu	Pro	Pro	Leu	Pro	Pro	Leu	Pro	Pro	Trp	Thr	Ile	Ser
		20					25						30		

Leu	Phe	Pro	Leu	Cys	Ser	Trp	Xaa	Ala	Gln	Leu	Cys	Met	Cys	Val	Trp
	35						40					45			

Gly	Val	Gly	Val	Gly	Ser	Gly	Leu	Ser	Gly	Phe	Gly	Arg	Gly	Leu	Gly
	50				55						60				

Arg	Val	Arg	Gly	Gly	Trp	Arg	Met	Lys	Ser	Pro	Thr	Pro	Phe	Ser	Ser
65					70					75				80	

Ser	Arg	Pro	Gln	Lys	Pro	Gly	Lys	Gly	Arg	Val	Pro	Thr	Leu	Gly	Xaa
			85						90					95	

<210> 4433

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4433

Asn	Arg	Ser	Phe	Phe	Val	Ser	Pro	Phe	Lys	Ser	Thr	Gly	Phe	Lys	Arg
1				5					10					15	

Gly	Lys	Cys	Ile	His	Arg	Pro	Gln	Cys	Leu	Ala	Phe	Ser	Ser	Ala	Ser
			20					25					30		

Thr	Trp	Ser	Thr	Gly	Leu	Asp	Ala	Gln	Thr	Tyr	Leu	Gly	Asn	Tyr	Phe
		35					40					45			

4023

Gly Arg Cys Leu Ser Leu Tyr Arg Asn Cys Ser Trp Tyr Phe Ile Leu
 50 55 60

Leu Tyr Ile Tyr Ser Thr Cys Pro Leu Val Phe Asn Tyr Xaa Gln Ser
 65 70 75 80

Leu Phe Arg Ser Lys Asn
 85

<210> 4434

<211> 254

<212> PRT

<213> Homo sapiens

<400> 4434

Lys Ala Leu Asn Val Val Gln Ser Val Leu Gln Ile Asn Leu Ser Asn
 1 5 10 15

Ser Thr Asn Arg Gly Ser Val Ala Ala Lys Lys Phe Lys Asp Ile Ile
 20 25 30

His Tyr Asp Pro Thr Lys Gln Asp His Ala Thr Tyr Glu Arg Lys Arg
 35 40 45

Asp Asp Lys Pro Lys Glu Ser Lys Ala Lys Arg Lys Lys Lys Arg Glu
 50 55 60

Glu Ala Glu Lys Leu Pro Glu Val Ser Lys Glu Met Tyr Tyr Asn Ile
 65 70 75 80

Ala Met Asp Leu Lys Glu Ile Phe Gln Thr Thr Lys Tyr Thr Ser Glu
 85 90 95

Lys Glu Glu Gly Thr Pro Trp Asn Glu Asp Cys Gly Lys Glu Lys Pro
 100 105 110

Glu Glu Ile Gln Asp Pro Ala Ala Leu Thr Ser Asp Ala Glu Gln Pro
 115 120 125

Ser Gly Phe Thr Phe Ser Phe Phe Asp Ser Asp Thr Lys Asp Ile Lys
 130 135 140

Glu Glu Thr Tyr Arg Val Glu Thr Val Lys Pro Gly Lys Ile Val Trp
 145 150 155 160

Gln Glu Asp Pro Arg Leu Gln Asp Ser Ser Ser Glu Glu Glu Asp Val
 165 170 175

4024

Thr Glu Glu Thr Asp His Arg Asn Ser Ser Pro Gly Glu Ala Ser Leu
 180 185 190
 Leu Glu Lys Glu Thr Thr Arg Phe Phe Phe Phe Ser Lys Asn Asp Glu
 195 200 205
 Arg Leu Gln Gly Ser Asp Leu Phe Trp Arg Gly Val Gly Ser Asn Met
 210 215 220
 Ser Arg Asn Ser Trp Glu Ala Arg Thr Thr Asn Leu Arg Met Asp Cys
 225 230 235 240
 Arg Lys Lys His Lys Asp Ala Lys Arg Lys Met Lys Pro Lys
 245 250

<210> 4435

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4435

Leu Leu Asn Leu Val Lys Ala Val Phe Gly Gln Ala Cys Ala Arg Gly
 1 5 10 15
 His Leu Glu Cys Ser Thr His Trp Gln Ala Ser Pro Ile Pro Ile His
 20 25 30
 Pro Gly Ser Pro Arg Leu Gly Trp Asp Ile Asn Val Gly Ile Gly Lys
 35 40 45
 Lys Tyr Phe Leu Phe Arg Gly Lys Gln Glu Glu Thr Leu Pro Glu Ser
 50 55 60
 Asp Phe Leu Val Ile Ser Ile Ser Thr Glu Xaa
 65 70 75

<210> 4436

<211> 47

<212> PRT

<213> Homo sapiens

<220>

4025

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4436

Lys Leu Ile Arg Asp Xaa Ala Thr Asp Ser Leu Arg Ser Pro Ala Leu
 1 5 10 15

Pro Leu Asn Lys Cys Trp Cys Ile Gln Met Val Lys Tyr Ser Ala Ala
 20 25 30

Ile Lys Gly Val Lys Thr Ala Ser Thr Tyr Leu Glu Ala His Leu
 35 40 45

<210> 4437

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4437

Gly Xaa Asp Thr Leu Glu Ile Gln Gln Gln Ala Leu Leu Arg Glu Gln
 1 5 10 15

Gln Lys Arg Leu Asn Arg Ile Lys Met Gln Glu Gly Ala Lys Val Asp
 20 25 30

Leu Asp Ala Ile Pro Ser Ala Lys Val Arg Glu Gln Arg Met Pro Arg
 35 40 45

Asp Asp Thr Ser Asp Phe Leu Lys Asn Ser Leu Leu Glu Ser Asp Ser
 50 55 60

Ala Phe Ile Gly Ala Tyr Gly Glu Thr Tyr Pro Ala Ile Glu Asp Asp
 65 70 75 80

Val Leu Pro Pro Pro Ser Gln Leu Pro Ser Ala Arg Glu Arg Arg Arg
 85 90 95

Asn Lys Trp Lys Gly Leu Asp Ile Asp Ser Ser Arg Pro Asn Val Ala
 100 105 110

Pro Asp Gly Leu Ser Leu Lys Ser Ile Ser Ser Val Asn Val Asp Glu
 115 120 125

4026

Leu Arg Val Arg Asn Glu Glu Arg Met Arg Arg Leu Asn Glu Phe His
 130 135 140

Asn Lys Pro Ile Asn Thr Asp Asp Glu Ser Ser Leu Val Asp Pro Asp
 145 150 155 160

Asp Ile Met Lys His Ile Gly Asp Asp Gly Ser Asn Ser Val Ala Thr
 165 170 175

Glu Pro Trp Leu Arg Pro Gly Thr Ser Glu Thr Leu Lys Arg Phe Met
 180 185 190

Ala Glu Gln Leu Asn Gln Glu Gln Gln Ile Pro Gly Lys Pro Gly
 195 200 205

Thr Phe Thr Trp Gln Gly Leu Ser Thr Ala His Gly
 210 215 220

<210> 4438

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4438

Asn Gly Gly Asn Gly Asn Thr Tyr Leu Lys Leu Leu Arg Glu Leu Asn
 1 5 10 15

Glu Ile Ile Leu Gln Asp Ser Tyr His Ser Lys Ala Val Asn Ala Pro
 20 25 30

Phe Arg Val Pro Leu Leu Leu Thr Ala Leu Lys Ile
 35 40

<210> 4439

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4439

Tyr Ser Thr Leu Leu Glu Lys Pro Pro Pro Ser Pro Asp Arg Cys Glu
 1 5 10 15

Arg Met Lys Val Thr Met Phe Cys Leu Arg Phe Ser Arg Phe Lys Leu
 20 25 30

Leu Leu Ser Ser Val Ser Arg Asp Phe His Cys Trp Ala Cys Leu
 35 40 45

4027

<210> 4440

<211> 57

<212> PRT

<213> Homo sapiens

<400> 4440

Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
1 5 10 15

Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
20 25 30

Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
35 40 45

Leu Phe Cys Ile Asn Cys Tyr Asp Gly
50 55

<210> 4441

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4441

Val Val Glu Tyr Arg Ala Val Asn Phe His Ala Phe Phe Pro Asp Ile
1 5 10 15

Lys Phe Tyr Ser Lys Lys Ala Thr Ser Asp Cys Thr Lys Asn Ile Lys
20 25 30

Ile His Ser Phe Tyr Lys Gly Val Asn Leu Asn Asn Val Ile Asp Trp
35 40 45

Asn Met Lys Ile Asn Gln Ser Phe Lys Ser Phe Leu Ala Asn Asp Pro
50 55 60

4028

Ile Leu Thr Pro Phe Leu Pro Arg Leu Glu Lys His Asn Val Phe Pro
 65 70 75 80

Pro Lys Val Xaa Asn Pro Arg Lys Ala Pro Val Ser Xaa Thr Asn Val
 85 90 95

<210> 4442

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4442

Asn Ser Ala Ser Gln Arg Ser Ser Ser Leu Pro Pro Ser Asn Arg Lys
 1 5 10 15

Ser Ser Thr Pro Lys Lys Thr Tyr Ser Glu Lys Ala Thr Asp Asn His
 20 25 30

Val Asn His Ser Ser Cys Pro Glu Pro Val Pro Asn Gly Val Lys Lys
 35 40 45

Val Ser Val Arg Thr Ala Trp Glu Lys Asn Lys Ser Val Ser Tyr Glu
 50 55 60

Gln Cys Lys Pro Val Ser Val Thr Pro Gln Gly Asn Asp Phe Glu Tyr
 65 70 75 80

Thr Ala Lys Ile Arg Thr Leu Ala Glu Thr Glu Arg Phe Phe Asp Glu
 85 90 95

Leu Thr Lys Glu Lys Asp Gln Ile Glu Ala Ala Leu Ser Arg Met Pro
 100 105 110

Ser Pro Gly Gly Arg Ile Thr Leu Gln Xaa Arg Leu Asn Gln Glu Ala
 115 120 125

4029

Leu Glu Asp Arg Leu Glu Gly Leu Ile Glu Asn Trp Gly Ser Xaa Arg
 130 135 140

Met Thr Leu Lys Asn Ser Met Phe Cys Ala Pro
 145 150 155

<210> 4443

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4443

Ile Arg Glu Thr Phe Ser Ile Tyr Leu Phe Val Leu Pro Ala Trp Glu
 1 5 10 15

Ser Asp Ser Thr Lys Tyr Phe Pro Ala Gly Trp Gly Ser Val Ser Gln
 20 25 30

Arg Asn His Pro Phe Pro Thr Phe Arg Leu Ile Leu Tyr Pro Ser Ile
 35 40 45

Xaa Pro Val Leu Met Glu Ala Lys Asp Asn Pro Arg Val Phe Ile Gly
 50 55 60

Asn Ser Leu Glu Leu Cys Ala Ile Val Phe Val Val Leu Leu Pro Phe
 65 70 75 80

Phe Phe Leu Asn Ile Tyr Val Gly Asn Ser Ile Cys Xaa Gly Ile Leu
 85 90 95

Xaa

4030

<210> 4444
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4444

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Thr Glu Thr Cys Phe Ala Trp Trp Met Ser Ala Ser Ser Pro Arg Arg
 1              5              10              15

Pro Ser Ser Glu Thr Pro Ala Ala Pro Thr Cys Phe Leu Arg Ser Ser
      20              25              30

Ala Ala Ala Val Thr Ser Ala Ala Thr Trp Xaa Leu Cys Lys Asp Ser
 35              40              45

Ser Phe Ser Glu Asp Gly Ala Val Leu Pro Gln Trp Leu Cys Ser Asn
 50              55              60

Cys Gln Ala Pro Tyr Asp Ser Ser Ala Ile Glu Met Thr Leu Val Glu
 65              70              75              80

Val Leu Gln Lys Lys Leu Met Ala Phe Thr Leu Gln Asp Leu Val Cys
      85              90              95

Leu Lys Cys Arg Gly Val Lys Glu Thr Ser Met Pro Val Tyr Cys Ser
      100              105              110

Cys Ala Gly Asp Phe Ala Leu Thr Ile His Thr Gln Val Phe Met Glu
      115              120              125

Gln Ile Gly Ile Phe Arg Asn Ile Ala Gln His Tyr Gly Met Ser Tyr
      130              135              140

Leu Leu Glu Thr Leu Glu Trp Leu Leu Gln Lys Asn Pro Gln Leu Gly
      145              150              155              160

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His

<210> 4445
 <211> 112
 <212> PRT
 <213> Homo sapiens

4031

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4445

Asn	Val	Phe	Val	Val	Thr	Asp	Phe	Gln	Asp	Ser	Val	Phe	Asn	Asp	Leu
1				5					10					15	

Tyr	Lys	Ala	Asp	Cys	Arg	Val	Ile	Gly	Pro	Pro	Val	Val	Leu	Asn	Cys
			20					25					30		

Ser	Gln	Lys	Gly	Glu	Pro	Leu	Pro	Phe	Ser	Cys	Arg	Pro	Leu	Tyr	Cys
		35					40					45			

Thr	Ser	Met	Met	Asn	Leu	Val	Leu	Cys	Phe	Thr	Gly	Phe	Arg	Lys	Lys
	50					55					60				

Glu	Glu	Leu	Val	Arg	Leu	Val	Thr	Leu	Val	His	His	Xaa	Gly	Gly	Val
65					70					75					80

Ile	Arg	Lys	Asp	Phe	Asn	Ser	Lys	Xaa	Thr	His	Leu	Val	Ala	Ile	Val
				85					90					95	

His	Lys	Glu	Lys	Ile	Gln	Gly	Cys	Cys	Glu	Ser	Arg	Tyr	Ser	Ile	Met
			100					105					110		

<210> 4446

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4446

Ala	Glu	Asp	Pro	Ala	Gly	Gly	Leu	Ala	Gly	Gln	Asp	Thr	Met	Phe	Ala
1				5					10					15	

4032

Arg Gly Leu Lys Arg Lys Cys Val Gly His Glu Glu Asp Val Glu Gly
 20 25 30
 Ala Leu Ala Gly Leu Lys Thr Val Ser Ser Tyr Ser Leu Gln Arg Gln
 35 40 45
 Ser Leu Leu Asp Met Ser Leu Val Lys Leu Gln Leu Cys His Met Leu
 50 55 60
 Val Glu Pro Asn Leu Cys Arg Ser Val Leu Ile Ala Asn Thr Val Arg
 65 70 75 80
 Gln Ile Gln Glu Glu Met Thr Gln Asp Gly Thr Trp Arg Thr Val Ala
 85 90 95
 Pro Gln Ala Ala Glu Arg Ala Pro Xaa Asp Arg Leu Val Ser Thr Glu
 100 105 110
 Ile Leu Cys Arg Ala Ala Trp Gly Gln Glu Gly Ala His Pro Ala Pro
 115 120 125
 Gly Leu Gly Asp Gly His Thr Gln Gly Pro Val Ser Asp Leu Cys Pro
 130 135 140
 Val Thr Ser Ala Gln Ala Pro Arg His Leu Gln Ser Ser Ala Trp Glu
 145 150 155 160
 Met Asp Gly Pro Arg Glu Asn Arg Gly Ser Phe His Lys Ser Leu Asp
 165 170 175
 Gln Ile Phe Glu Thr Leu Glu Thr Lys Asn Pro Ser Cys Met Glu Glu
 180 185 190
 Leu Phe Ser Asp Val Asp Ser Pro Tyr Tyr Asp Leu Asp Thr Val Leu
 195 200 205
 Thr Gly Met Met Gly Gly Ala Arg Pro Gly Pro Cys Glu Gly Leu Glu
 210 215 220
 Gly Leu Ala Pro Ala Thr Pro Gly Pro Ser Ser Ser Cys Lys Ser Asp
 225 230 235 240
 Leu Gly Glu Leu Asp His Val Val Glu Ile Leu Val Glu Thr
 245 250

<210> 4447

<211> 169

<212> PRT

4033

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4447

Ser	Lys	Val	Lys	Gln	Thr	Glu	Asn	Cys	Gly	Gly	Phe	Val	Gly	Val	Gln
1				5					10					15	

Leu	Arg	Asn	Met	Ala	Gln	Glu	Thr	Asn	His	Ser	Gln	Val	Pro	Met	Leu
			20					25					30		

Cys	Ser	Thr	Gly	Cys	Gly	Phe	Tyr	Gly	Asn	Pro	Arg	Thr	Asn	Gly	Met
		35					40					45			

Cys	Ser	Val	Cys	Tyr	Lys	Glu	His	Leu	Gln	Arg	Gln	Asn	Ser	Ser	Asn
		50				55					60				

Gly	Arg	Ile	Ser	Pro	Pro	Ala	Thr	Ser	Val	Ser	Ser	Leu	Ser	Glu	Ser
65						70				75					80

Leu	Pro	Val	Gln	Cys	Thr	Asp	Gly	Ser	Val	Pro	Glu	Ala	Gln	Ser	Ala
			85						90					95	

Leu	Xaa	Ser	Thr	Ser	Ser	Ser	Met	Gln	Pro	Ser	Pro	Val	Ser	Asn	Gln
			100					105					110		

Ser	Leu	Leu	Ser	Glu	Ser	Val	Ala	Ser	Ser	Gln	Leu	Asp	Ser	Thr	Ser
		115					120					125			

Val	Asp	Lys	Ala	Val	Pro	Glu	Thr	Glu	Asp	Val	Gln	Ala	Ser	Val	Ser
	130					135					140				

Asp	Thr	Ala	Gln	Gln	Pro	Ser	Glu	Xaa	Gln	Ser	Lys	Ser	Leu	Xaa	Lys
145					150					155					160

Pro	Lys	Gln	Lys	Lys	Glu	Ser	Leu	Val
				165				

4034

<210> 4448

<211> 374

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4448

Ser Pro Ser Ser Thr Ala Ala Thr Ser Ala Phe Arg Ile Ala Ser Ala
 1 5 10 15

Cys Leu Asp Glu Leu Ser Cys Glu Xaa Leu Leu Ala Gly Ala Gly Gly
 20 25 30

Ala Gly Ala Gly Ala Xaa Pro Gly Thr Ala Ser Pro Pro Thr Gly Ser
 35 40 45

Val Pro Gly Asp Pro Val Arg Ile His Cys Asn Ile Thr Glu Ser Tyr
 50 55 60

Pro Ala Val Pro Pro Ile Trp Ser Val Glu Ser Asp Asp Pro Asn Leu
 65 70 75 80

Ala Ala Val Leu Glu Arg Leu Val Asp Ile Lys Lys Gly Asn Thr Leu
 85 90 95

Leu Leu Gln His Leu Lys Arg Ile Ile Ser Asp Leu Cys Lys Leu Tyr
 100 105 110

Asn Leu Pro Gln His Pro Asp Val Glu Met Leu Asp Gln Pro Leu Pro
 115 120 125

Ala Glu Gln Cys Thr Gln Glu Asp Val Ser Ser Glu Asp Glu Asp Glu
 130 135 140

Glu Met Pro Glu Asp Thr Glu Asp Leu Asp His Tyr Glu Met Lys Glu
 145 150 155 160

Glu Glu Pro Ala Glu Gly Lys Lys Ser Glu Asp Asp Gly Ile Gly Lys
 165 170 175

4035

Glu	Asn	Leu	Ala	Ile	Leu	Glu	Lys	Ile	Lys	Lys	Asn	Gln	Arg	Gln	Asp	180	185	190
Tyr	Leu	Asn	Gly	Ala	Val	Ser	Gly	Ser	Val	Gln	Ala	Thr	Asp	Arg	Leu	195	200	205
Met	Lys	Glu	Leu	Arg	Asp	Ile	Tyr	Arg	Ser	Gln	Ser	Phe	Lys	Gly	Gly	210	215	220
Asn	Tyr	Ala	Val	Glu	Leu	Val	Asn	Asp	Ser	Leu	Tyr	Asp	Trp	Asn	Val	225	230	235
Lys	Leu	Leu	Lys	Val	Asp	Gln	Asp	Ser	Ala	Leu	His	Asn	Asp	Leu	Gln	245	250	255
Ile	Leu	Lys	Glu	Lys	Glu	Gly	Ala	Asp	Phe	Ile	Leu	Leu	Asn	Phe	Ser	260	265	270
Phe	Lys	Asp	Asn	Phe	Pro	Phe	Asp	Pro	Pro	Phe	Val	Arg	Val	Val	Ser	275	280	285
Pro	Val	Leu	Ser	Gly	Gly	Tyr	Val	Leu	Gly	Gly	Gly	Ala	Ile	Cys	Met	290	295	300
Glu	Leu	Leu	Thr	Lys	Gln	Gly	Trp	Ser	Ser	Ala	Tyr	Ser	Ile	Glu	Ser	305	310	315
Val	Ile	Met	Gln	Ile	Ser	Ala	Thr	Leu	Val	Lys	Gly	Lys	Ala	Arg	Val	325	330	335
Gln	Phe	Gly	Ala	Asn	Lys	Ser	Gln	Tyr	Ser	Leu	Thr	Arg	Ala	Gln	Gln	340	345	350
Ser	Tyr	Lys	Ser	Leu	Val	Gln	Ile	His	Glu	Lys	Asn	Gly	Trp	Tyr	Thr	355	360	365
Pro	Pro	Lys	Glu	Asp	Gly											370		

<210> 4449

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

4036

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4449

Ala Glu Glu Val Tyr Ala Gln Leu Gln Lys Met Leu Leu Glu Gln Gln
 1 5 10 15

Glu Lys Cys Leu Leu Phe Ser Lys Gln Phe Met His Gln Gly Asn Val
 20 25 30

Ala Glu Thr Thr Arg Phe Glu Lys Leu Ala Gln Asp Arg Lys Lys Gln
 35 40 45

Leu Glu Ile Leu Gln Leu Ala Gln Ala Gln Gly Leu Xaa Pro Pro Thr
 50 55 60

His His Phe Glu Leu Lys Thr Phe Xaa Thr Val Arg Ile Phe Ser Gln
 65 70 75 80

Leu Asn Ser Thr Glu Met His Leu Ile Ile Val Arg Gly Met Asn Leu
 85 90 95

Pro Ala Pro Pro Gly Val Thr Pro Asp Asp Leu Asp Ala Phe Val Arg
 100 105 110

Phe Glu Phe His Tyr Pro Asp Ser Asp Gln Ala Gln Lys Ser Lys Thr
 115 120 125

Ala Val Val Asn Asn Thr Asn Ser Pro Xaa Leu Ile Thr Leu Gln Leu
 130 135 140

Asn Ser
 145

<210> 4450

<211> 61

<212> PRT

<213> Homo sapiens

<400> 4450

Ile Met Lys Glu Ser Ser Ser Val Leu Ala Lys Cys Ser Ser Ile Ala
 1 5 10 15

4037

Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
 20 25 30

Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
 35 40 45

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser
 50 55 60

<210> 4451

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4451

Lys Thr Met Met Met Thr Phe Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
 20 25

<210> 4452

<211> 108

<212> PRT

<213> Homo sapiens

<400> 4452

Asp His Leu Asp Leu Thr Lys Gly Thr Ile Lys Trp Cys Gln Val Leu
 1 5 10 15

Gly Ser Arg Arg Val Tyr Lys Lys Lys Met Asn Lys Asp Phe Thr Tyr
 20 25 30

Trp Gly Ser Gly Ile Thr Gly Cys Leu Asp Cys Pro Ala Thr Gln Leu
 35 40 45

Pro Pro Ile Lys Ser Phe Ile Thr Leu Gln Glu Gly Pro Asp Ala Ser
 50 55 60

Ile Ile Ser Thr Pro Cys Phe Ser Val Ile Ser Phe Glu Val Ala Lys
 65 70 75 80

4038

Asn Gly Ser Gln Lys Lys Met Leu Arg Leu Phe Ser Ser Ile Tyr Ser
 85 90 95

Cys Tyr Phe Ala Glu Asp Arg Val Asn Phe Phe Ser
 100 105

<210> 4453

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4453

Ile Ser Gly Lys Trp Leu Thr Glu Arg Thr Ile Arg Cys Val Tyr Ile
 1 5 10 15

Thr Ser Tyr Ser Leu Phe Leu Thr Ala Leu Met Leu Trp His Cys Tyr
 20 25 30

Xaa His Ile Tyr Val Phe Leu Ile Tyr Ser Ser Asp Ser Phe Asn Phe
 35 40 45

Leu Ser Ser Leu Ser Ile Arg Cys Ala His Leu Leu Cys Gln Val Glu
 50 55 60

Val

65

<210> 4454

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

4039

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (243)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4454
 Val Pro Gly Pro Ala Ala Arg Gly Leu Gly Arg Leu Arg Arg Gly Val
 1 5 10 15
 Xaa Val Arg Gly Arg Arg Thr Xaa Ala Lys Val Ala Ile Lys Xaa Leu
 20 25 30
 Tyr Arg Pro Phe Gln Ser Glu Leu Phe Ala Lys Arg Ala Tyr Arg Glu
 35 40 45
 Leu Arg Leu Leu Lys His Met Arg His Glu Asn Val Ile Gly Leu Leu
 50 55 60
 Asp Val Phe Thr Pro Asp Glu Thr Leu Asp Asp Phe Thr Asp Phe Tyr
 65 70 75 80
 Leu Val Met Pro Phe Met Gly Thr Asp Leu Gly Lys Leu Met Lys His
 85 90 95
 Xaa Lys Leu Gly Glu Asp Arg Ile Gln Phe Leu Val Tyr Gln Met Xaa
 100 105 110
 Lys Gly Leu Arg Tyr Ile His Ala Ala Gly Ile Ile His Arg Asp Leu
 115 120 125

4040

Lys Pro Gly Asn Leu Ala Val Asn Glu Asp Cys Glu Leu Lys Ile Leu
 130 135 140
 Asp Phe Gly Leu Ala Arg Gln Ala Asp Ser Glu Met Thr Gly Tyr Val
 145 150 155 160
 Val Thr Arg Trp Tyr Arg Ala Pro Glu Val Ile Leu Asn Trp Met Arg
 165 170 175
 Tyr Thr Gln Thr Val Asp Ile Trp Ser Val Gly Cys Ile Met Ala Glu
 180 185 190
 Met Ile Thr Gly Lys Thr Leu Phe Lys Gly Ser Asp His Leu Asp Gln
 195 200 205
 Leu Lys Glu Ile Met Lys Val Thr Gly Thr Pro Pro Ala Glu Phe Val
 210 215 220
 Gln Arg Leu Gln Ser Asp Glu Ala Lys Asn Tyr Met Lys Gly Leu Pro
 225 230 235 240
 Glu Xaa Xaa Glu Glu Gly Phe Cys Leu Tyr Pro Asp Gln Cys Lys Pro
 245 250 255
 Ser Gly Cys Glu Pro Pro Gly Glu Asp Ala Gly Ala Gly Arg Gly Ala
 260 265 270
 Ala Gly Asp Gly Arg Arg Gly Ala Gly Pro Ser Leu Leu Arg Val Pro
 275 280 285
 Ala Arg His Gly Arg
 290

<210> 4455

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4455

Thr Arg Gly Leu His Leu Thr Leu Ser Thr Tyr Gln Arg Asn Thr Trp
 1 5 10 15
 Gly Asp Phe Leu Glu Ala Ile Leu Pro Leu Ala Val Gln Ala Ala Met
 20 25 30
 Glu Glu Asn Val Glu Phe Arg Arg Gly Leu Pro Arg Asp Phe Met Asp
 35 40 45
 Tyr Met Gly Ala Gln His Ser Asp Ser Lys Asp Pro Gly Lys Asn Arg

4041

50 55 60
Phe His Gly Glu Gly Ala Gly Leu Gly Cys Pro Pro Gly Thr Leu Cys
65 70 75 80

Ser Cys

<210> 4456

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4456

Xaa Xaa Phe Leu Ser Arg Leu Pro Phe Met Trp Val Lys Asp Lys Val
1 5 10 15

Glu Asn Thr Leu Leu Tyr Leu Val Ser Arg Val Asn Leu Met Ser Ser
20 25 30

Ser Leu Cys Phe Glu Ile Phe Trp Asn Val Ile Xaa Asn Tyr Xaa Arg
35 40 45

Trp Ser Met Tyr Val Leu Gly Leu Val Leu Met Phe Asn Met His Tyr
50 55 60

Leu Ile Gln Ser Ser Gln Gln Ser
65 70

4042

<210> 4457

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4457

Asp His Val Leu Cys Arg Asp Met Asp Glu Ala Gly Thr Ile Ile Leu
 1 5 10 15

Ser Lys Leu Thr Glu Glu Gln Glu Thr Lys His His Met Phe Ser Leu
 20 25 30

Val Ser Gly Thr Glu Gln
 35

<210> 4458

<211> 114

<212> PRT

<213> Homo sapiens

<400> 4458

Pro Arg Phe Cys Gly Ala Leu Arg His Ser Leu Asn Ala Thr Leu Thr
 1 5 10 15

Pro Arg Leu Glu Asn Pro Val Leu Met Trp Trp Ala Gly Pro Leu Leu
 20 25 30

Met Glu Asp Gly Gly Asp Gly Val Val Leu Lys Gly Ser Val Val Leu
 35 40 45

Glu Val Tyr Thr Pro Leu Arg Thr Ala Cys Gln Glu Pro Gln Ser Ser
 50 55 60

Phe Thr Ser Ala Lys Ala Glu Arg Glu Arg Thr Trp Glu Ala Phe Cys
 65 70 75 80

Ser Leu Ser Tyr Pro Ser Ile Asn Ser Ile Ile Val Asp Ala Lys Gly
 85 90 95

Asp Gly Asp Val Pro Ser Thr Val Val Ala Val Thr Thr Leu Thr Ser
 100 105 110

Leu Ser

4043

<210> 4459
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4459
 Asn Gln Asn Tyr Xaa Trp Glu Lys Asn Lys Phe Ile Tyr Glu Asn Val
 1 5 10 15
 Lys Ile Ile Leu Lys Val Leu Phe Ser Asn Lys Met Glu Lys Leu Val
 20 25 30
 Lys Xaa Xaa Lys Lys Lys Lys Lys Lys Arg Xaa Pro Leu Xaa Gly
 35 40 45

<210> 4460
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 4460
 Ser Ala Leu Phe Ser Leu Ala Glu Asp Lys Gly Ile His Ala Ala Pro
 1 5 10 15

4044

Arg Phe Leu Val Ala Arg Leu Arg Thr Lys Gln Leu Arg Ser Ser His
 20 25 30
 Ser Asp Pro Asn Val Leu Thr Val Leu Phe Leu Ile Thr Val Thr Leu
 35 40 45
 Lys Val Gln Ala Lys Cys Cys Gln Thr Pro Trp Leu Lys Gln Trp Arg
 50 55 60
 Val Met Gly Lys Ala Val Glu Gly Pro Gln Pro Thr His Trp Leu Lys
 65 70 75 80
 Leu Pro Pro Thr Ala Thr Met Asn Pro Thr Ala Val Tyr Ala Pro Ile
 85 90 95
 Phe Leu Phe Leu Tyr Leu His Pro His Asp Ser Gln Cys Trp Ile Phe
 100 105 110
 Leu His Glu
 115

<210> 4461
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 4461
 Gln Ser Met Val Val Ser His Tyr Ala Arg Pro Asp Leu Pro Leu Leu
 1 5 10 15
 Met Val Ile Ser Cys Glu Ser Phe Phe Leu Pro Leu His Ser Phe Tyr
 20 25 30
 Ser Val Tyr Ser Pro Met Pro His Pro Lys Ser Cys Thr Val Asn Trp
 35 40 45
 Pro Val Lys Gly Thr Pro Thr Phe Lys Gln Gly Arg Gln Asp Thr Thr
 50 55 60
 Gly Arg Arg Leu Ile Ala Gln Thr Leu Asp Cys Ser Gly Trp Asp Gln
 65 70 75 80
 Ile Leu Ala Pro Leu Leu Ala Ser Cys Val Ala Leu Gly Lys Leu Leu
 85 90 95
 Asn Leu Ser Gly Pro Gln Phe Leu Pro Leu
 100 105

4045

<210> 4462
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4462
 Phe Tyr Tyr Phe Ser Leu Phe Lys Xaa Glu Xaa Gln Ile Glu Ser Xaa
 1 5 10 15
 Gln Ile Leu Gln Met Thr Gly Ile Phe Val Ser Xaa Leu Ser Phe Cys
 20 25 30
 Val Phe Phe Leu Asn Lys Ile Phe Arg Gly Asn Ala Phe Thr Glu Lys
 35 40 45

Lys

<210> 4463
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 4463
 Ile Arg His Glu Ser Lys Arg Asn Gln Val Ser Tyr Val Arg Pro Ala
 1 5 10 15
 Glu Pro Ala Phe Leu Ala Arg Phe Lys Glu Arg Val Gly Tyr Arg Glu

20

25

30

Asp Gly Asp His Ser Asp Lys Glu Asp Glu Gln Pro Gln Val Val Val
50 55 60

Leu Lys Lys Gly Asp Leu Ser Val Glu Glu Val Met Lys Ile Lys Ala
65 70 75 80

Glu Ile Lys Ala Ala Lys Ala Asp Glu Glu Pro Thr Pro Ala Asp Gly
85 90 95

Arg Ile Ile Tyr Arg Lys Pro Val Lys His Pro Ser Asp Glu Lys Tyr
100 105 110

Ser Gly Leu Thr Ala Ser Ser Lys Lys Lys Lys Pro Asn Glu Asp Glu
115 120 125

Val	Asn	Gln	Asp	Ser	Val	Lys	Lys	Asn	Ser	Gln	Lys	Gln	Ile	Lys	Asn
130						135					140				

Ser Ser Leu Leu Ser Phe Asp Asn Glu Asp Glu Asn Glu
145 150 155

<210> 4464

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4464

Asn Tyr Asp Cys Phe Xaa Xaa Ser Pro Phe Gly Thr Arg Ser Phe Gln
1 5 10 15

Leu Lys Gly Arg Gly Asn Ile Tyr Leu Lys Ser Ser Ile His Glu Arg
20 25 30

Lys Arg Met Glu Thr Met Ser Ser Val Leu Leu Leu Pro Lys His Pro

4047

35 40 45
 Cys Met Cys Val His Val Cys Trp Arg Val Cys Val Cys Met His Ile
 50 55 60
 Ser Lys Cys Val Phe Ala Cys Val Cys Trp Gly Val Tyr Val Ile Trp
 65 70 75 80
 Val Phe Val Tyr Leu Cys Tyr Tyr Ser Pro Leu Ala Leu Phe
 85 90

<210> 4465

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4465

Arg Trp Ala Arg Val Glu Ala Ala Val Met Glu Gly Ala Gly Ala Gly
 1 5 10 15

Ser Gly Phe Arg Lys Glu Leu Val Ser Arg Leu Leu His Leu His Phe
 20 25 30

Lys Asp Asp Lys Thr Lys Val Ser Gly Asp Ala Leu Gln Leu Met Val
 35 40 45

Glu Leu Leu Lys Val Phe Val Val Glu Ala Ala Val Arg Gly Val Arg
 50 55 60

Gln Ala Gln Ala Glu Asp Ala Leu Arg Val Asp Val Asp Gln Leu Glu
 65 70 75 80

Lys Val Leu Arg Ser Cys Ser Gly Leu Leu Gly Ile Ser Ala Val Ala
 85 90 95

4048

Xaa Ala Thr Pro Arg Gly Ala Pro Gly Pro Gln Lys Gln Ala Leu Cys
 100 105 110
 Phe Gln Arg Pro Leu Ile Arg Gly Arg Glu Gly Xaa Glu Gly Phe Gly
 115 120 125
 Xaa Asp Ser Asn Lys Ile Ser Gly Ser Leu Gln Pro Val Gln Lys Gly
 130 135 140
 Gln Asp Cys Ser Ala Leu Arg Ala Leu Glu Cys Pro Val Gly Thr Leu
 145 150 155 160
 Val Trp Glu Gly Ala Ala Pro Gly Glu Ser Leu Pro Leu Leu Pro Gly
 165 170 175
 Thr Ile Val Cys Met Pro Pro Gly Val Leu Gln Ala Gly Ala Gly Lys
 180 185 190
 Gly Leu Ala Ser Arg
 195

<210> 4466

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4466

Lys Ala Trp Ser Ala Phe Arg Gly Ile Arg Arg Lys His Arg Lys Ser
 1 5 10 15
 Leu Leu Ser Arg Ser Trp Ala Pro Leu Pro Leu Gly Gln Arg Thr Gly
 20 25 30
 Asn Arg Gly Ser Gly Ile Ser Gly Pro Ala Arg Glu Arg Ser Ser Arg
 35 40 45
 Ala Arg Ser Cys Pro Ala Asn His Ala Ala Pro Trp Ala Glu Ala Ala
 50 55 60
 Pro Ala Met Ala Leu Gly Pro Ala Pro Ala Gln Gly Xaa Leu Ser Pro
 65 70 75 80
 Ala Cys Trp Ala Pro Pro Trp Tyr Ile Ala Ser Ser Arg Thr Gln Ile

4049

85

90

95

Thr Pro

<210> 4467

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4467

Gly Leu Pro His Arg Ile Ile Met His Ser Pro Leu Leu Met His Val
1 5 10 15

Lys Phe Leu Leu Gly Lys Leu Thr His His Leu Thr Thr Ile Leu Ser
20 25 30

Thr Ile Glu Tyr Ile Leu Phe His Lys Phe Gly Ile His Ser Glu
35 40 45

<210> 4468

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4468

Phe Thr Asn Ala Phe Gly Gln Leu Asp Val Thr Asp Phe Ile Leu Cys
1 5 10 15

Asp Tyr Asn Lys Lys His Asn Phe Leu Lys Lys Lys Lys Lys Lys Lys
20 25 30

4050

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 35 40 45

Arg Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe Asn Ser Leu Ala
 50 55 60

Arg Xaa Phe Thr Thr Xaa
 65 70

<210> 4469

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4469

Trp Xaa Tyr Arg Ile Leu Asn Arg Ile Gln Phe Asp Met Thr Ala Lys
 1 5 10 15

Asn Val Gly Leu Thr Ser Thr Asn Ala Glu Val Arg Gly Phe Ile Asp
 20 25 30

Gln Asn Leu Ser Pro Thr Lys Gly Asn Ile Ser Phe Val Ala Phe Pro
 35 40 45

Val Ser Asn Thr Asn Ser Pro Thr Lys Ile Leu Pro Lys Thr Leu Gly
 50 55 60

Pro Ile Asn Val Asn Val Gly Pro Gln Met
 65 70

<210> 4470

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4051

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4470

Leu Pro Leu Tyr Thr Gly Ser Ser Arg Gly Glu His Ala Pro Pro Pro
 1 5 10 15

Trp Ser Pro Pro Arg Ala Val Asn Leu Gly Ser Xaa Ser Arg Ala Val
 20 25 30

Thr Leu Pro Glu Ala Pro Pro Pro Arg Arg Arg Pro Gly Ala Val Asn
 35 40 45

Pro Ser Leu Ala Ala Ala Glu Ser Ala Pro Gly Gln Ala His Leu Arg
 50 55 60

Ile Asn Ala Leu Met Ala Ser Pro Arg Arg Glu Ser Leu Gly Met Val
 65 70 75 80

Phe Ser Thr Val Lys Thr Phe Glu Pro Pro Glu Arg Leu Thr Pro Ala
 85 90 95

Pro Leu Arg Gly His Phe Ile Gln Lys Leu Asn His Ser Glu Phe Gln
 100 105 110

His Cys Arg Gly Ser Ser Gly Ser Val His Arg His Ser Leu Ala Leu
 115 120 125

Ser Pro Thr Glu Pro Xaa Arg Asp Leu Gly Pro Ser Trp Gly Leu Phe
 130 135 140

Ile Val Glu Lys Ala Ser Cys Gln Thr Arg Ile Cys Gly Arg Gly Gln
 145 150 155 160

Ala Gly Gly Leu Gly Arg Trp Gln Trp Xaa Val Ser Ala His Gly Cys
 165 170 175

Gly Trp

<210> 4471

<211> 107

<212> PRT

<213> Homo sapiens

4052

<400> 4471

Leu Arg Trp Lys Gly Arg Tyr Ser Glu Asn Asp Val Lys Asn Trp Thr
 1 5 10 15
 Pro Glu Leu Gln Lys Tyr Leu Asn Phe Asp Pro Arg Thr Ala Gln Lys
 20 25 30
 Ile Asp Asn Gly Ile Phe Trp Ile Ser Trp Asp Asp Leu Cys Gln Tyr
 35 40 45
 Tyr Asp Val Ile Tyr Leu Ser Trp Asn Pro Gly Leu Phe Lys Glu Ser
 50 55 60
 Thr Cys Ile His Ser Thr Trp Asp Ala Lys Gln Gly Pro Val Lys Asp
 65 70 75 80
 Ala Tyr Ser Leu Ala Asn Asn Pro Gln Tyr Lys Leu Glu Val Gln Cys
 85 90 95
 Thr Thr Gly Gly Cys Cys Ser Leu Gly Phe Ala
 100 105

<210> 4472

<211> 129

<212> PRT

<213> Homo sapiens

<400> 4472

Ala Trp Ala Asp Ala Trp Gly Glu Phe Ser Ala Leu Arg Ala Glu Asn
 1 5 10 15
 Glu Lys Ile Lys Leu Glu Leu His Gln Leu Lys Gln Gln Val Met Asp
 20 25 30
 Glu Val Ile Lys Val Arg Thr Asp Thr Lys Leu Asp Phe Asn Leu Glu
 35 40 45
 Lys Ser Arg Val Lys Glu Leu Tyr Ser Leu Asn Glu Lys Lys Leu Leu
 50 55 60
 Glu Leu Arg Thr Glu Ile Val Ala Leu His Ala Gln Gln Asp Arg Ala
 65 70 75 80
 Leu Thr Gln Thr Asp Arg Lys Ile Glu Thr Glu Val Ala Gly Leu Lys
 85 90 95
 Thr Met Leu Glu Ser His Lys Leu Asp Asn Ile Lys Tyr Leu Ala Gly
 100 105 110

4053

Ser Ile Phe Thr Cys Leu Thr Val Ala Leu Gly Phe Tyr Arg Leu Trp
 115 120 125

Ile

<210> 4473

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4473

Ala Cys Ser Asn Ala Cys Lys Thr Thr Tyr His Ser Ala Leu Val Phe
 1 5 10 15

Leu Ile Gln Glu Gly Arg Ala Val Asn Leu Phe Gly Ala Asn Val Lys
 20 25 30

Cys Lys

<210> 4474

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4474-

Thr Tyr Tyr Gln Asn Phe Phe Lys Glu Phe Phe Met Lys Asp Phe Pro
 1 5 10 15

Pro Leu Gln Glu Arg Asn Xaa Val Leu Pro Phe Cys Leu Val Lys Ala
 20 25 30

Glu Phe Ala Val Ala Ser Lys Glu Thr Phe Leu Asn Lys Asn Tyr Val
 35 40 45

Leu Trp His Asn Pro Phe Phe Glu Leu Tyr Arg Glu Gln Ser Phe Gly
 50 55 60

Asn Ser Gly Arg Tyr Leu Phe Leu Leu Asn Ile Tyr Pro Ile Ile Gly
 65 70 75 80

4054

Ile Thr Val Thr Tyr Leu Gly Phe His His
 85 90

<210> 4475

<211> 43

<212> PRT

<213> Homo sapiens

<400> 4475

Phe Lys Tyr Val Lys Cys Gly Ser Phe Thr Pro His His Ser Glu His
 1 5 10 15

Thr Gly Glu Met Cys Phe Phe Gly Lys Leu Lys Gly Ala Ser Ser Leu
 20 25 30

Ile Gln Arg Asn Ile Ser His Val Cys Ser Phe
 35 40

<210> 4476

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4476

Ser Trp Arg Ser Asn Asn Ser Arg Lys Ser Ser Ala Asp Thr Glu Phe
 1 5 10 15

Ser Asp Glu Cys Thr Thr Ala Glu Arg Val Leu Met Lys Ser Pro Ser
 20 25 30

Pro Ala Leu His Pro Pro Gln Lys Tyr Lys Asp Arg Gly Ile Leu His
 35 40 45

Pro Lys Arg Gly Thr Glu Asp Arg Ser Asp Gln Ser Ser Leu Lys Ser
 50 55 60

Thr Asp Ser Ser Ser Tyr Pro Ser Pro Cys Ala Ser Pro Ser Pro Pro
 65 70 75 80

Ser Ser Gly Lys Gly Leu Lys Ile Ser Phe Xaa Lys Thr Lys His Ala
 85 90 95

4055

Cys Ser Ile Leu His Asn Glu Glu
100

<210> 4477

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4477

Thr Val Val Glu Val Tyr Val Phe Val Tyr Leu Pro Ala Phe Glu Asn
1 5 10 15

Gly Gln Ile Asp Lys Leu Ser Leu Thr Asp Leu Gly Ala Leu Trp Ala
20 25 30

Gly Ile Lys Thr Glu Gly Gly Leu Ser Gln Ser Gln Ser Pro Gly Gln
35 40 45

Thr Xaa Phe Leu Ser Tyr Gly Thr Ser Phe Ser Thr Pro Gln Pro Gly
50 55 60

Gln Ala Pro Tyr Ser Tyr Gln Met Gln Gly Leu Tyr Ile His Ile Ala
65 70 75 80

Ile Phe Leu Asn Pro Val Gly
85

<210> 4478

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4478

Leu Gln Arg Arg Arg Glu Gln Lys Gln Arg Arg His Asp Ala Gln Gln
1 5 10 15

Leu Gln Gln Leu Lys His Leu Glu Ser Phe Tyr Glu Lys Pro Pro Pro
20 25 30

Gly Leu Ile Lys Glu Asp Glu Thr Lys Pro Glu Asp Cys Ile Pro Asp
35 40 45

4056

Val Pro Gly Asn Glu His Ala Arg Glu Phe Leu Ala His Ala Pro Thr
 50 55 60

Lys Gly Leu Trp Met Pro Leu Gly Lys Glu Val Lys Val Met Gln Cys
 65 70 75 80

Trp Arg Cys Lys Pro Met Val Thr Glu Arg Val Thr Lys Asn Ala Leu
 85 90 95

Ser Leu Ser Lys Ala Thr Lys Ser
 100

<210> 4479

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4479

Leu Val Lys Cys Asn Tyr Cys Asn Phe Phe Pro Ile Gln Leu Tyr Ile
 1 5 10 15

Ser Leu Thr Asp Asp Gln Ile Ile Val Val Leu Asn Gln Phe Val Val
 20 25 30

Ser Lys Cys Phe Val Gly Phe Cys Leu Phe Val Phe Lys Glu Gln Phe
 35 40 45

Gly Ser Leu Asp Met Val Leu Gln Arg Asp Xaa Met Gly Cys Xaa Trp

4057

50	55	60
Phe Trp Val Ile Thr Asp Leu Leu Asp Asn Leu Asp Lys Gln Pro Ser		
65	70	75 80
Cys His Val Cys Leu Ser Asn Leu Lys Cys Ser Leu Tyr Phe Met Phe		
	85	90 95
Leu Glu Xaa Leu Ser Xaa Lys Asp Leu Thr Leu Trp Gln Ile Cys Leu		
	100	105 110
Asn Arg Asp Thr Thr Met Leu Pro Asn Lys Ala Phe Trp Pro		
	115	120 125

<210> 4480

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4480

Val Thr Asn Leu Val Ile Ile Phe Phe Leu Ile Gln Pro Gln Lys Leu		
1	5	10 15
Ala Ile Leu Lys Arg Leu Met Phe Thr Asn Gly Lys Asn Glu Met Thr		
	20	25 30
Leu His Leu Leu Arg Glu Asn Ser Leu Arg His Ser Leu Ser Lys Leu		
	35	40 45
Tyr Phe Phe Tyr Leu Ile Leu Lys Thr Ser Ala Pro Lys Ser Val Ser		
	50	55 60
Ile Phe Pro Glu Cys Leu		
65	70	

<210> 4481

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4058

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4481

Glu	Leu	Arg	Gln	Phe	Ser	Xaa	Met	Asn	Arg	Tyr	Asn	Leu	Lys	Pro	Asn
1				5					10				15		

Gln	Thr	Arg	Lys	Leu	Arg	Gly	His	Arg	Met	Pro	Val	Leu	Gly	Trp	Ala
			20					25					30		

Thr	Pro	Leu	Leu	Phe	Val	Lys	Met	Xaa
		35					40	

<210> 4482

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4482

Asn	Leu	Asn	Gly	Xaa	Leu	Ile	Phe	Pro	Leu	Cys	Pro	Leu	Val	Pro	Cys
1				5					10				15		

Lys	Met	Leu	Gly	His	Pro	Lys	Glu	Arg	Gly	Glu	Ile	Ala	Met	Val	Val
			20					25					30		

Pro	Lys	Val	Leu	Leu	Ala	Leu	His	Val	Phe	Leu	Lys	Ser	Arg	Thr	Trp
		35					40					45			

Ser	Phe	Ser	Phe	Met
				50

<210> 4483

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4059

<221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4483
 Cys Arg Gln Glu Arg Ala Val Ala Pro Ala Arg Arg Ala Met Glu Arg
 1 5 10 15
 Ile Pro Ser Ala Gln Pro Pro Pro Ala Cys Leu Pro Lys Ala Pro Gly
 20 25 30
 Leu Glu His Gly Asp Leu Pro Gly Met Tyr Pro Ala His Met Tyr Gln
 35 40 45
 Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Xaa Xaa Asp Ser Lys Glu
 50 55 60
 Thr Tyr Lys Leu Pro Xaa Arg Xaa Ile Glu Lys Arg Asp Xaa Thr Xaa
 65 70 75 80

<210> 4484
 <211> 155
 <212> PRT
 <213> Homo sapiens

<220>

4060

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4484

Ser	Phe	Gln	Gln	Glu	Met	Val	Thr	Ile	Arg	Arg	Ile	Ile	Gln	Ser	Gln
1				5					10					15	

Lys	Arg	Arg	Arg	Val	Lys	Thr	Leu	Pro	Gly	Asp	Gly	Lys	Gly	Asn	Lys
				20				25					30		

His	Lys	Lys	His	Arg	Lys	Arg	Arg	Lys	Gly	Glu	Glu	Ser	Glu	Gly	Phe
			35				40					45			

Leu	Asn	Pro	Glu	Leu	Leu	Glu	Thr	Ser	Arg	Lys	Ser	Arg	Glu	Pro	Thr
	50					55					60				

Xaa	Val	Glu	Glu	Asn	Lys	Thr	Asp	Ser	Leu	Phe	Val	Leu	Pro	Ser	Arg
65					70					75					80

Asp	Asp	Ala	Thr	Pro	Val	Arg	Asp	Glu	Pro	Met	Asp	Ala	Glu	Ser	Xaa
				85					90					95	

Thr	Phe	Lys	Ser	Val	Ser	Glu	Lys	Asp	Xaa	Arg	Glu	Arg	Asp	Lys	Pro
				100				105					110		

Lys	Ala	Lys	Gly	Asp	Lys	Thr	Lys	Arg	Lys	Asn	Asp	Gly	Ser	Ala	Val
		115					120					125			

Ser	Lys	Lys	Glu	Asn	Ile	Val	Lys	Pro	Ala	Lys	Gly	Pro	Gln	Glu	Lys
	130					135					140				

Val	Asp	Gly	Glu	Arg	Glu	Arg	Ser	Pro	Ser	Ile
145					150					155

<210> 4485

<211> 71

<212> PRT

<213> Homo sapiens

4061

<400> 4485

Pro Pro Arg Arg Gly Leu Gly Gly Thr Ser Ser Arg Ser Pro Gly Pro
 1 5 10 15

Arg Phe Cys Gly Arg Val His Cys Arg Gly Gly Asp Gly Val Arg Ala
 20 25 30

Arg Arg Gln Leu Pro Pro Arg Ser Ser Gly Pro Thr Trp Gln Ser Ala
 35 40 45

Ala His Gly Ser Pro Ala Ser Glu Asp Pro Trp Leu Gln Pro Pro Ile
 50 55 60

Pro Thr Cys Arg Arg Thr Arg
 65 70

<210> 4486

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4486

Asp Ile Asp Leu Asp Met Arg Phe Phe Ser Phe Ile Leu Ser Cys Arg
 1 5 10 15

Arg Asn Xaa Ser Ser Ile Cys Thr Arg Xaa Lys Thr Thr Tyr Thr Asn
 20 25 30

Thr Ile Glu Gln Leu Ile Met Lys Thr Leu Pro Ala Phe Ile Lys Asn
 35 40 45

Val Ile Ile Phe Phe Cys
 50

<210> 4487

<211> 33

4062

<212> PRT

<213> Homo sapiens

<400> 4487

Gln Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val
 1 5 10 15

Leu Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Pro Val Phe Thr
 20 25 30

Leu

<210> 4488

<211> 186

<212> PRT

<213> Homo sapiens

<400> 4488

Ala Val Pro Lys Asp Val Ser Ser Glu Glu Ala Gly Gln Val Glu Gly
 1 5 10 15

Val Ser Thr Met Val Ile Asp Gly Glu Gly Asp Ala Ala Gln Val Glu
 20 25 30

Arg Phe Val His Leu Pro Gly Val Gln Glu Trp Val Gly Gly Thr Thr
 35 40 45

Gln Ser Ile Leu Tyr Leu Ala His Thr Cys Trp Tyr Trp Ser Trp Leu
 50 55 60

Ala Phe Pro Cys Ala Thr Arg Arg Ser Cys Thr Val Leu Ser Ser Gln
 65 70 75 80

Leu Thr Ser Ala Lys Met Ser Gly Phe Ser Ser Glu Leu Leu Cys Glu
 85 90 95

Ala Thr Arg Met Glu Val Ile Ser Ala Ser Val Leu Ile Leu Glu Val
 100 105 110

Glu Lys Trp Ser Glu Ser Ser Val Val Lys Trp Pro Tyr Thr Lys Val
 115 120 125

Gly Asp Ile Gln Asn Arg Gly Glu Ile Gly Leu Ser Ala Pro Leu Gly
 130 135 140

Gly Arg Glu Ala Val Gly Val Gly Gly Glu Met Ala Leu Cys Glu Cys
 145 150 155 160

4063

Gly Arg Pro Ala Asp Trp Arg Trp Asn Trp Pro Gln Cys Leu Ser Trp
 165 170 175

Arg Trp Arg Ser Gly Gln Ser Pro Trp Trp
 180 185

<210> 4489

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4489

Pro Val Pro Phe Pro Thr Phe Ala Leu Pro Val Val Gly Met Trp Glu
 1 5 10 15

Ala His Leu Ser Ser Cys Asp Phe Met Ser Gln Thr Lys Asp Glu Arg
 20 25 30

Leu Val Ser Ala Met Met Val Val Ser Glu Ala Phe Pro Cys Pro Val
 35 40 45

Trp Cys Leu Pro His Ile Val Pro Asp Thr Gly Phe Leu Asp Pro Leu
 50 55 60

Leu Leu Ser Phe Leu Ser Phe Arg Ser Arg Ser Pro Val Leu Tyr Pro
 65 70 75 80

Ala Pro Gln Lys Pro Gln Cys Phe Ser Ser Ala Gly Leu Gly His Lys
 85 90 95

Glu Ala Leu Gly Tyr Gly Glu Arg Leu Leu Leu Pro Arg Val Tyr Ser
 100 105 110

Gln Ala Arg Gly Leu Pro Ser Ser Ser Gln Thr Ser Leu Lys Gly Ser
 115 120 125

Pro Phe Gly Ala Gly Arg
 130

<210> 4490

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4490

Glu Phe Gly Thr Arg Gln Trp Cys Asp Leu Ser Ser Leu Gln Pro Pro
 1 5 10 15

4064

Arg Leu Gly Phe Met Gln Leu Ser Cys Leu Ser Leu Pro Ser Ser Trp
 20 25 30

Asp Tyr Arg His Val Pro Pro Cys Pro Ala Asn Phe Cys Ile Phe Ser
 35 40 45

Arg Asp Gly Val Ser Leu Cys Trp Ser Gly
 50 55

<210> 4491

<211> 25

<212> PRT

<213> Homo sapiens

<400> 4491

Arg Ala Pro Val Ile Pro Ala Thr Gln Glu Ala Glu Ala Gly Glu Trp
 1 5 10 15

Arg Glu Pro Gly Arg Arg Ser Leu Gln
 20 25

<210> 4492

<211> 351

<212> PRT

<213> Homo sapiens

<400> 4492

Glu Pro Pro Pro Pro Ala Ile Arg His His Leu Pro Leu Leu Gln Leu
 1 5 10 15

Phe Ser Gln Asp Gln Pro Leu Ala Gln Pro Arg Ala Met Ala Tyr Val
 20 25 30

Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr Leu Pro Tyr Tyr
 35 40 45

Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser Val Tyr Ile Gln
 50 55 60

Gly Val Val Ser Glu His Met Lys Arg Phe Phe Val Asn Phe Val Val
 65 70 75 80

Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe
 85 90 95

Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp

4065

100	105	110
Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys Lys Gly Ala Ala		
115	120	125
Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr Lys Val Val Val		
130	135	140
Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met		
145	150	155
Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn		
165	170	175
Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro		
180	185	190
Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro		
195	200	205
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe Gly		
210	215	220
Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile Lys Gly		
225	230	235
Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe Lys Val Gly		
245	250	255
Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg Met Gly Asn Gly		
260	265	270
Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp Gly Ser Glu Glu		
275	280	285
Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu		
290	295	300
Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr Ala Asn Gly Gln		
305	310	315
His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe Gln Arg Val Asp		
325	330	335
Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr Val Gln Ile		
340	345	350

<210> 4493

<211> 83

4066

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4493

Val	Asn	Glu	Cys	Gln	Gly	Arg	Gln	Ala	Pro	Ala	Pro	Arg	Ala	Leu	Gly
1				5					10					15	

Val	Ala	Arg	Gly	Cys	Leu	Ala	Arg	Thr	Pro	Cys	Thr	Tyr	Phe	Pro	Gly
			20					25						30	

Ala	Gln	His	Gly	Asn	Lys	Ala	Pro	Xaa	Xaa	Ala	Leu	Gly	Pro	Cys	Glu
		35					40					45			

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
	50					55					60				

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Xaa	Lys
65					70					75				80

Arg Phe Pro

<210> 4494

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4494

Pro Gln Arg Ala Arg Ala Gly Ala Arg Xaa Pro Ser Met Gly Val Leu

4067

1 5 10 15
 Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala Leu Leu Phe Pro
 20 25 30
 Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser Lys Glu Tyr Arg
 35 40 45
 Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu Met Gln Asp Thr
 50 55 60
 Ser Arg Leu Leu Asp Pro Tyr Val Ser Thr Trp Ala Leu Val Ala Ser
 65 70 75 80
 Glu Ser Gln Arg Thr Met Gly Leu Gly Arg Glu
 85 90

<210> 4495

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4495

Ala Pro Val Val Ala Ala Thr Arg Glu Ala Glu Ala Gly Glu Ser Leu
 1 5 10 15
 Glu Pro Val Gly Ala Glu Val Ala Val Ser Gln Asp Arg Ala Thr Ala
 20 25 30
 Leu Gln Pro Gly
 35

<210> 4496

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4496

Leu Pro His Pro Lys Phe Tyr Gly Arg Leu Met Phe Cys Tyr Gly Asp
 1 5 10 15
 Tyr His Pro Ser Thr Trp Lys His Gln Asn Gly Leu Val Gln Leu Gly
 20 25 30
 Ser Ser Ala Arg Ser Arg Cys Leu Leu Phe Glu Ile Val Trp Lys Asp
 35 40 45

4068

Tyr Cys
50

<210> 4497

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4497

Gln Val Asn Glu Val His Ile Trp Lys Ser Leu Asn Ile Phe Arg Ser
1 5 10 15

Trp Asn Ser Met Ala Thr Leu Val Val Tyr Ala Phe His Cys Cys Gly
20 25 30

Arg Gly Phe Gly Ser Lys Cys His Gln Gln Trp Ile Gln Lys Thr Trp
35 40 45

Ile Trp Asn Lys Gly Lys Ile Tyr Leu Met Gly Leu Asn Cys Ser Ala
50 55 60

Arg Ser Ile Trp Tyr Glu Met Lys Trp Leu Ser
65 70 75

<210> 4498

<211> 444

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4498

Asn Glu Gln Asp Asn Cys Val Leu Ile His Asp Val Asp Gln Arg Asn
1 5 10 15

Ser Asp Lys Asp Ile Phe Gly Asp Ala Cys Asp Asn Cys Leu Ser Val
20 25 30

Leu Xaa Asn Asp Gln Lys Asp Thr Asp Gly Asp Gly Arg Gly Asp Ala
35 40 45

Cys Asp Asp Asp Met Asp Gly Asp Gly Ile Lys Asn Ile Leu Asp Asn
50 55 60

4069

Cys Pro Lys Phe Pro Asn Arg Asp Gln Arg Asp Lys Asp Gly Asp Gly
 65 70 75 80
 Val Gly Asp Ala Cys Asp Ser Cys Pro Asp Val Ser Asn Pro Asn Gln
 85 90 95
 Ser Asp Val Asp Asn Asp Leu Val Gly Asp Ser Cys Asp Thr Asn Gln
 100 105 110
 Asp Ser Asp Gly Asp Gly His Gln Asp Ser Thr Asp Asn Cys Pro Thr
 115 120 125
 Val Ile Asn Ser Ala Gln Leu Asp Thr Asp Lys Asp Gly Ile Gly Asp
 130 135 140
 Glu Cys Asp Asp Asp Asp Asp Asp Asn Asp Gly Ile Pro Asp Leu Val Pro
 145 150 155 160
 Pro Gly Pro Asp Asn Cys Arg Leu Val Pro Asn Pro Ala Gln Glu Asp
 165 170 175
 Ser Asn Ser Asp Gly Val Gly Asp Ile Cys Glu Ser Asp Phe Asp Gln
 180 185 190
 Asp Gln Val Ile Asp Arg Ile Asp Val Cys Pro Glu Asn Ala Glu Val
 195 200 205
 Thr Leu Thr Asp Phe Arg Ala Tyr Gln Thr Val Val Leu Asp Pro Glu
 210 215 220
 Gly Asp Ala Gln Ile Asp Pro Asn Trp Val Val Leu Asn Gln Gly Met
 225 230 235 240
 Glu Ile Val Gln Thr Met Asn Ser Asp Pro Gly Leu Ala Val Gly Tyr
 245 250 255
 Thr Ala Phe Asn Gly Val Asp Phe Glu Gly Thr Phe His Val Asn Thr
 260 265 270
 Gln Thr Asp Asp Asp Tyr Ala Gly Phe Ile Phe Gly Tyr Gln Asp Ser
 275 280 285
 Ser Ser Phe Tyr Val Val Met Trp Lys Gln Thr Glu Gln Thr Tyr Trp
 290 295 300
 Gln Ala Thr Pro Phe Arg Ala Val Ala Glu Pro Gly Ile Gln Leu Lys
 305 310 315 320
 Ala Val Lys Ser Lys Thr Gly Pro Gly Glu His Leu Arg Asn Ser Leu
 325 330 335

4070

Trp His Thr Gly Asp Thr Ser Asp Gln Val Arg Leu Leu Trp Lys Asp
 340 345 350

Ser Arg Asn Val Gly Trp Lys Asp Lys Val Ser Tyr Arg Trp Phe Leu
 355 360 365

Gln His Arg Pro Gln Val Gly Tyr Ile Arg Val Arg Phe Tyr Glu Gly
 370 375 380

Ser Glu Leu Val Ala Asp Ser Gly Val Thr Ile Asp Thr Thr Met Arg
 385 390 395 400

Gly Gly Arg Leu Gly Val Phe Cys Phe Ser Gln Glu Asn Ile Ile Trp
 405 410 415

Ser Asn Leu Lys Tyr Arg Cys Asn Asp Thr Ile Pro Glu Asp Phe Gln
 420 425 430

Glu Phe Gln Thr Gln Asn Phe Asp Arg Phe Asp Asn
 435 440

<210> 4499

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4499

Leu Pro Gln Val Met Ala Glu Phe Arg Asn Asn Pro Gly Glu Val Glu
 1 5 10 15

Gly Arg Lys Ala Lys Ser Met Lys Gly Gln Thr Thr Gly Lys Asn Gln
 20 25 30

Asp Asn Pro Val Ile Asp Glu Ile Asp Phe Leu Glu Ala Phe Lys Asn
 35 40 45

Ile Gln Pro Ser Ser Phe Arg Ser Val Ile Gly Leu Met Asp Ile Lys
 50 55 60

Pro Val Asp Trp Glu Glu Ile Gly Gly Leu Glu Asp Val Lys Leu Lys
 65 70 75 80

Leu Lys Gln Ser Ile Glu Trp Pro Leu Lys Phe Pro Trp Glu Phe Val
 85 90 95

4071

Arg	Met	Gly	Leu	Thr	Gln	Pro	Lys	Gly	Val	Leu	Leu	Tyr	Gly	Pro	Pro		
			100					105					110				
Gly	Cys	Ala	Lys	Thr	Thr	Leu	Val	Arg	Ala	Leu	Ala	Thr	Ser	Cys	His		
		115					120					125					
Cys	Ser	Phe	Val	Ser	Val	Ser	Gly	Ala	Asp	Leu	Phe	Ser	Pro	Phe	Val		
	130					135					140						
Gly	Asp	Ser	Glu	Lys	Val	Leu	Ser	Gln	Ile	Phe	Arg	Gln	Ala	Arg	Ala		
145					150					155					160		
Ser	Thr	Pro	Ala	Ile	Leu	Phe	Leu	Asp	Glu	Ile	Asp	Ser	Ile	Leu	Gly		
				165					170					175			
Ala	Arg	Ser	Ala	Ser	Lys	Thr	Gly	Cys	Asp	Val	Gln	Glu	Arg	Val	Leu		
			180					185					190				
Ser	Val	Leu	Leu	Asn	Glu	Leu	Asp	Gly	Val	Gly	Leu	Lys	Thr	Ile	Glu		
	195						200					205					
Arg	Arg	Gly	Ser	Lys	Ser	Ser	Gln	Gln	Glu	Phe	Gln	Glu	Val	Phe	Asn		
	210					215					220						
Arg	Ser	Val	Met	Ile	Ile	Ala	Ala	Thr	Xaa	Arg	Pro	Asp	Val	Leu	Asp		
225					230					235					240		
Thr	Ala	Leu	Leu	Arg	Pro	Gly	Arg	Leu	Asp	Lys	Ile	Ile	Tyr	Ile	Pro		
				245					250					255			
Pro	Pro	Asp	His	Lys	Gly	Arg	Leu	Ser	Ile	Leu	Lys	Val	Cys	Thr	Lys		
			260					265					270				
Thr	Met	Pro	Ile	Gly	Pro	Asp	Val	Ser	Leu	Glu	Asn	Leu	Ala	Ala	Glu		
	275						280					285					
Thr	Cys	Phe	Phe	Ser	Gly	Ala	Asp	Leu	Arg	Asn	Leu	Cys	Thr	Glu	Ala		
	290					295					300						
Ala	Leu	Leu	Ala	Leu	Gln	Glu	Asn	Gly	Leu	Asp	Ala	Thr	Thr	Val	Lys		
305					310					315					320		
Gln	Glu	His	Phe	Leu	Lys	Ser	Leu	Lys	Thr	Val	Lys	Pro	Ser	Leu	Ser		
				325					330					335			
Cys	Lys	Asp	Leu	Ala	Leu	Tyr	Glu	Asn	Leu	Phe	Lys	Lys	Glu	Gly	Phe		
		340						345					350				
Ser	Asn	Val	Glu	Gly	Ile												
		355															

4072

<210> 4500

<211> 446

<212> PRT

<213> Homo sapiens

<400> 4500

Asn Ser Ala Gln Val Gly Arg Gly Asp Ala Val Leu Lys Thr Trp Ala
 1 5 10 15

Pro Ala Gln Cys Leu Cys Ser Arg Met Gly Pro Ala Trp Leu Trp Leu
 20 25 30

Leu Gly Thr Gly Ile Leu Ala Ser Val His Cys Gln Pro Leu Leu Ala
 35 40 45

His Gly Asp Lys Ser Leu Gln Gly Pro Gln Pro Pro Arg His Gln Leu
 50 55 60

Ser Glu Pro Ala Pro Ala Tyr His Arg Ile Thr Pro Thr Ile Thr Asn
 65 70 75 80

Phe Ala Leu Arg Leu Tyr Lys Glu Leu Ala Ala Asp Ala Pro Gly Asn
 85 90 95

Ile Phe Phe Ser Pro Val Ser Ile Ser Thr Thr Leu Ala Leu Leu Ser
 100 105 110

Leu Gly Ala Gln Ala Asn Thr Ser Ala Leu Ile Leu Glu Gly Leu Gly
 115 120 125

Phe Asn Leu Thr Glu Thr Pro Glu Ala Asp Ile His Gln Gly Phe Arg
 130 135 140

Ser Leu Leu His Thr Leu Ala Leu Pro Ser Pro Lys Leu Glu Leu Lys
 145 150 155 160

Val Gly Asn Ser Leu Phe Leu Asp Lys Arg Leu Lys Pro Arg Gln His
 165 170 175

Tyr Leu Asp Ser Ile Lys Glu Leu Tyr Gly Ala Phe Ala Phe Ser Ala
 180 185 190

Asn Phe Thr Asp Ser Val Thr Thr Gly Arg Gln Ile Asn Asp Tyr Leu
 195 200 205

Arg Arg Gln Thr Tyr Gly Gln Val Val Asp Cys Leu Pro Glu Phe Ser
 210 215 220

4073

Gln Asp Thr Phe Met Val Leu Ala Asn Tyr Ile Phe Phe Lys Ala Lys
 225 230 235 240
 Trp Lys His Pro Phe Ser Arg Tyr Gln Thr Gln Lys Gln Glu Ser Phe
 245 250 255
 Phe Val Asp Glu Arg Thr Ser Leu Gln Val Pro Met Met His Gln Lys
 260 265 270
 Glu Met His Arg Phe Leu Tyr Asp Gln Asp Leu Ala Cys Thr Val Leu
 275 280 285
 Gln Ile Glu Tyr Arg Gly Asn Ala Leu Ala Leu Leu Val Leu Pro Asp
 290 295 300
 Pro Gly Lys Met Lys Gln Val Glu Ala Ala Leu Gln Pro Gln Thr Leu
 305 310 315 320
 Arg Lys Trp Gly Gln Leu Leu Leu Pro Ser Leu Leu Asp Leu His Leu
 325 330 335
 Pro Arg Phe Ser Ile Ser Gly Thr Tyr Asn Leu Glu Asp Ile Leu Pro
 340 345 350
 Gln Ile Gly Leu Thr Asn Ile Leu Asn Leu Glu Ala Asp Phe Ser Gly
 355 360 365
 Val Thr Gly Gln Leu Asn Lys Thr Ile Ser Lys Val Ser His Lys Ala
 370 375 380
 Met Val Asp Met Ser Glu Lys Gly Thr Glu Ala Gly Ala Ala Ser Gly
 385 390 395 400
 Leu Leu Ser Gln Pro Pro Ser Leu Asn Thr Met Ser Asp Pro His Ala
 405 410 415
 His Phe Asn Arg Pro Phe Leu Leu Leu Leu Trp Glu Val Thr Thr Gln
 420 425 430
 Ser Leu Leu Phe Leu Gly Lys Val Val Asn Pro Val Ala Gly
 435 440 445

<210> 4501

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4074

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4501

Lys	Ala	Arg	Pro	Leu	Xaa	Leu	Thr	Lys	Gly	Asn	Lys	Xaa	Trp	Xaa	Ser
1				5					10					15	

Thr	Ala	Val	Ala	Ala	Ala	Leu	Gln	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg
			20					25					30		

Asn	Ser	Ala	Arg	Glu	Glu	His	Trp	Pro	Ser	Gln	Leu	Leu	Leu	Arg	Glu
		35					40					45			

Ser	Leu	Glu	Asp	Met	Met	Leu	His	Ser	Ala	Leu	Gly	Leu	Cys	Leu	Leu
	50					55					60				

Leu	Val	Thr	Val	Ser	Ser	Asn	Leu	Ala	Ile	Ala	Ile	Lys	Lys	Glu	Lys
65					70					75					80

Arg	Pro	Pro	Gln	Thr	Leu	Ser	Arg	Gly	Trp	Gly	Asp	Asp	Ile	Thr	Trp
				85					90					95	

Val	Gln	Thr	Tyr	Glu	Glu	Gly	Leu	Phe	Tyr	Ala	Gln	Lys	Ser	Lys	Lys
			100					105						110	

Pro	Leu	Met	Val	Ile	His	His	Leu	Glu	Asp	Cys	Gln	Tyr	Ser	Gln	Ala
		115					120						125		

Leu	Lys	Lys	Val	Phe	Ala	Gln	Asn	Glu	Glu	Ile	Gln	Glu	Met	Ala	Gln
	130					135					140				

Asn	Lys	Phe	Ile	Met	Leu	Asn	Leu	Met	His	Glu	Thr	Thr	Asp	Lys	Asn
145					150					155					160

Leu	Ser	Pro	Asp	Gly	Gln	Tyr	Val	Pro	Arg	Asn	His	Val	Cys	Arg	Pro
				165					170					175	

Phe	Phe	Asn	Ser
			180

4075

<210> 4502

<211> 29

<212> PRT

<213> Homo sapiens

<400> 4502

Gly Gly Thr Ser Ser Leu Ser Thr Met Asn Gln Thr Ala Ile Leu Asn
 1 5 10 15

Leu Leu Pro Tyr Leu Ser Asp Ser Lys Trp His Ser Arg
 20 25

<210> 4503

<211> 238

<212> PRT

<213> Homo sapiens

<400> 4503

Gln Asp Leu Lys Pro Val Leu Asp Arg Glu Tyr Leu Ala Ile Tyr Leu
 1 5 10 15

Lys Met Val Phe Phe Thr Cys Asn Ala Cys Gly Glu Ser Val Lys Lys
 20 25 30

Ile Gln Val Glu Lys His Val Ser Val Cys Arg Asn Cys Glu Cys Leu
 35 40 45

Ser Cys Ile Asp Cys Gly Lys Asp Phe Trp Gly Asp Asp Tyr Lys Asn
 50 55 60

His Val Lys Cys Ile Ser Glu Asp Gln Lys Tyr Gly Gly Lys Gly Tyr
 65 70 75 80

Glu Gly Lys Thr His Lys Gly Asp Ile Lys Gln Gln Ala Trp Ile Gln
 85 90 95

Lys Ile Ser Glu Leu Ile Lys Arg Pro Asn Val Ser Pro Lys Val Arg
 100 105 110

Glu Leu Leu Glu Gln Ile Ser Ala Phe Asp Asn Val Pro Arg Lys Lys
 115 120 125

Ala Lys Phe Gln Asn Trp Met Lys Asn Ser Leu Lys Val His Asn Glu
 130 135 140

Ser Ile Leu Asp Gln Val Trp Asn Ile Phe Ser Glu Ala Ser Asn Ser
 145 150 155 160

4076

Glu Pro Val Asn Lys Glu Gln Asp Gln Arg Pro Leu His Pro Val Ala
 165 170 175

Asn Pro His Ala Glu Ile Ser Thr Lys Val Pro Ala Ser Lys Val Lys
 180 185 190

Asp Ala Val Glu Gln Gln Gly Glu Val Lys Lys Asn Lys Arg Glu Arg
 195 200 205

Lys Glu Glu Arg Gln Lys Lys Arg Lys Arg Glu Lys Lys Glu Leu Lys
 210 215 220

Val Arg Lys Pro Pro Gly Lys Thr Pro Arg Asp Ser Glu Ala
 225 230 235

<210> 4504

<211> 341

<212> PRT

<213> Homo sapiens

<400> 4504

Thr His Ala Ser Ala His Ala Ser Ala His Ala Ser Ala His Ala Ser
 1 5 10 15

Gly Trp His Val Gly Gln Ala Gln Gln Gly Pro Val Ser Ala Leu Ser
 20 25 30

Arg Ala Leu Pro Ala Pro Ala Arg Thr Met Arg Ala Leu Glu Gly Pro
 35 40 45

Gly Leu Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro
 50 55 60

Val Pro Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg
 65 70 75 80

Asp Ala Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly
 85 90 95

Thr Phe Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly
 100 105 110

Pro Cys Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg
 115 120 125

Cys Arg Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg
 130 135 140

Ala Cys His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe

4077

145		150		155		160									
Phe	Ala	His	Ala	Gly	Phe	Cys	Leu	Glu	His	Ala	Ser	Cys	Pro	Pro	Gly
				165					170					175	
Ala	Gly	Val	Ile	Ala	Pro	Gly	Thr	Pro	Ser	Gln	Asn	Thr	Gln	Cys	Gln
			180					185					190		
Pro	Cys	Pro	Pro	Gly	Thr	Phe	Ser	Ala	Ser	Ser	Ser	Ser	Ser	Glu	Gln
		195					200					205			
Cys	Gln	Pro	His	Arg	Asn	Cys	Thr	Ala	Leu	Gly	Leu	Ala	Leu	Asn	Val
	210					215					220				
Pro	Gly	Ser	Ser	Ser	His	Asp	Thr	Leu	Cys	Thr	Ser	Cys	Thr	Gly	Phe
225					230					235					240
Pro	Leu	Ser	Thr	Arg	Val	Pro	Gly	Ala	Glu	Glu	Cys	Glu	Arg	Ala	Val
				245					250					255	
Ile	Asp	Phe	Val	Ala	Phe	Gln	Asp	Ile	Ser	Ile	Lys	Arg	Leu	Gln	Arg
			260					265					270		
Leu	Leu	Gln	Ala	Leu	Glu	Ala	Pro	Glu	Gly	Trp	Gly	Pro	Thr	Pro	Arg
		275					280					285			
Ala	Gly	Arg	Ala	Ala	Leu	Gln	Leu	Lys	Leu	Arg	Arg	Arg	Leu	Thr	Glu
	290					295					300				
Leu	Leu	Gly	Ala	Gln	Asp	Gly	Ala	Leu	Leu	Val	Arg	Leu	Leu	Gln	Ala
305					310					315					320
Leu	Arg	Val	Ala	Arg	Met	Pro	Gly	Leu	Glu	Arg	Ser	Val	Arg	Glu	Arg
				325					330					335	
Phe	Leu	Pro	Val	His											
			340												

<210> 4505

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4078

<221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4505
 Lys Gly Gly Gln Gly Ser Val Gly Gly Glu Arg Gly Cys Leu Cys Ile
 1 5 10 15
 Lys Thr Cys Phe Pro Ala Val Trp Arg Phe Leu Thr Glu Leu Lys Ile
 20 25 30
 Glu Leu Pro Phe Ile Pro Ala Ile Pro Leu Leu Gly Ile Tyr Ser Lys
 35 40 45
 Glu Asn Lys Leu Phe Tyr Gln Lys Asp Thr Cys Thr Pro Met Xaa Ile
 50 55 60
 Ala Ala Leu Phe Thr Ile Ala Lys Thr Trp Ser Lys Pro Arg Cys Pro
 65 70 75 80
 Ser Xaa Val Asn Xaa Ile Lys Lys Met
 85

<210> 4506
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 4506
 Ile Ser Thr Ser Ile His Thr Tyr Val Leu Val Phe His Tyr Cys Asn
 1 5 10 15
 Leu Lys Glu Arg Leu Cys Ile Pro Phe Phe Asn Ser Val Leu Val Phe
 20 25 30
 Val Leu Phe Lys Lys Gln Asn Ser Ala Leu Phe Ser Cys Ile Ile Leu
 35 40 45
 Glu Asp Thr Leu Leu Cys Thr Ile Pro Ser Ala Leu Glu His Cys Leu
 50 55 60
 Ala Phe Leu Ser Ile Tyr Lys Cys Ile Tyr Val
 65 70 75

4079

<210> 4507

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4507

Val Thr Ala Gly Val Gln Thr Lys Thr Cys Thr Pro Met Phe Ile Ala
1 5 10 15

Ala Leu Phe Thr Ala Ala Lys Arg Trp Lys
20 25

<210> 4508

<211> 67

<212> PRT

<213> Homo sapiens

<400> 4508

Lys Gln Glu Thr Leu Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu
1 5 10 15

Gly Phe Arg Asp Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly
20 25 30

Lys Ser Pro Phe Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys
35 40 45

Tyr Glu Gly Trp Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro
50 55 60

Lys Pro Phe
65

<210> 4509

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4509

Ala Xaa Ala Pro Pro Gly Arg Ser Met Gly Arg Phe Arg Gly Gly Leu

4080

1	5	10	15
Arg Cys Ile Lys Tyr Leu Leu Leu Gly Phe Asn Leu Leu Phe Trp Leu	20	25	30
Ala Gly Ser Ala Val Ile Ala Phe Gly Leu Trp Phe Arg Phe Gly Gly	35	40	45
Ala Ile Lys Glu Leu Ser Ser Glu Asp Lys Ser Pro Glu Tyr Phe Tyr	50	55	60
Val Gly Leu Tyr Val Leu Val Gly Ala Gly Ala Leu Met Met Ala Val	65	70	75
Gly Phe Phe Gly Cys Cys Gly Ala Met Arg Glu Ser Gln Cys Val Leu	85	90	95
Gly Ser Phe Phe Thr Cys Leu Leu Val Ile Phe Ala Ala Glu Val Thr	100	105	110
Thr Gly Val Phe Ala Phe Ile Gly Lys Gly Val Ala Ile Arg His Val	115	120	125
Gln Thr Met Tyr Glu Glu Ala Tyr Asn Asp Tyr Leu Lys Asp Arg Gly	130	135	140
Lys Gly Asn Gly Thr Leu Ile Thr Phe His Ser Thr Phe Gln Cys Cys	145	150	155
Gly Lys Glu Ser Ser Glu Gln Val Gln Pro Thr Cys Pro Lys Glu Leu	165	170	175
Leu Gly His Lys Asn Cys Ile Asp Glu Ile Glu Thr Ile Ile Ser Val	180	185	190
Lys Leu Gln Leu Ile Gly Ile Val Gly Ile Gly Ile Ala Gly Leu Thr	195	200	205
Ile Phe Gly Met Ile Phe Ser Met Val Leu Cys Cys Ala Ile Arg Asn	210	215	220
Ser Arg Asp Val Ile	225		

<210> 4510

<211> 74

<212> PRT

<213> Homo sapiens

4081

<400> 4510

Ile Glu Cys Val Asn Thr Val Leu Val Asn Phe Ile Thr Phe Leu Leu
 1 5 10 15

Pro Tyr Ser Leu Asn Phe Ser Val Phe Val Val Pro Lys Gln Leu Leu
 20 25 30

Asn Leu Glu Gln Ile Asn Leu Thr Pro Ala Lys Lys Arg Leu Leu Leu
 35 40 45

Ala Tyr Gln Leu Ser Leu Asn Ser Asn Ala His Val Thr Phe Ile Thr
 50 55 60

Ser Lys Asn Ile Ser Leu Met Ile His Leu
 65 70

<210> 4511

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4511

Tyr Ile Gly Phe Val Ile Leu Val Phe Phe Ala Ser Ser Tyr Val Lys
 1 5 10 15

Glu Ile Asp Asn Lys Ile Leu Asn Asn Lys Lys Lys Xaa Lys Xaa Ser
 20 25 30

Ser Lys Gly Xaa Val Ala Xaa Ala Ile

4082

35

40

<210> 4512

<211> 288

<212> PRT

<213> Homo sapiens

<400> 4512

Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln
 1 5 10 15
 Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile
 20 25 30
 Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser
 35 40 45
 Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro
 50 55 60
 Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys
 65 70 75 80
 Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala
 85 90 95
 Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn
 100 105 110
 Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu
 115 120 125
 Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln
 130 135 140
 Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro
 145 150 155 160
 Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
 165 170 175
 Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr
 180 185 190
 Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr
 195 200 205
 Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp
 210 215 220

4083

Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg
 225 230 235 240

Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile
 245 250 255

Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile
 260 265 270

Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln
 275 280 285

<210> 4513

<211> 128

<212> PRT

<213> Homo sapiens

<400> 4513

Ser Pro Pro Tyr Ala Arg Lys Thr Cys Ser Arg Ser Val Ala Lys Leu
 1 5 10 15

Asn Arg Ala Ile Arg Ile His Gln Thr Leu Met Glu Ser Ala Ser Leu
 20 25 30

Thr Tyr Glu Gln Arg Leu Leu Ala Ile Gln Gln Leu Gly Arg Asp Tyr
 35 40 45

Met Ala Ala Gly Leu Tyr Asp Arg Ala Glu Asp Met Phe Asn Gln Leu
 50 55 60

Thr Asp Glu Thr Asp Phe Arg Ile Gly Ala Leu Gln Gln Leu Leu Gln
 65 70 75 80

Ile Tyr Gln Ala Thr Ser Glu Trp Gln Lys Ala Ile Asp Val Ala Glu
 85 90 95

Arg Leu Val Lys Leu Gly Lys Asp Lys Gln Arg Val Glu Ile Ala His
 100 105 110

Phe Tyr Cys Glu Leu Ala Leu Gln His Met Ala Leu Leu Gln Thr Lys
 115 120 125

4084

<210> 4514
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4514
Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu
1 5 10 15
Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu
20 25 30
Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr
35 40

<210> 4515
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4515
Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val Ile Asp
1 5 10 15
Glu Ala Asp Arg Ile Phe Asp Val Gly Phe Glu Glu Glu Leu Lys Gln
20 25 30
Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe Ser Ala
35 40 45
Thr Gln Thr Arg Lys Val Glu Asp Leu Ala Arg Ile Ser Leu Lys Lys
50 55 60

4085

Glu Pro Leu Tyr Val Gly Val Asp Asp Asp Lys Ala Asn Ala Thr Val
 65 70 75 80
 Asp Gly Leu Glu Gln Lys Asn Arg Lys Lys Lys Leu Met Val Phe Phe
 85 90 95
 Ser Ser Cys Met Ser Val Lys Tyr His Tyr Glu Leu Leu Asn Tyr Ile
 100 105 110
 Asp Leu Pro Val Leu Ala Ile His Gly Lys Gln Lys Gln Asn Lys Arg
 115 120 125
 Thr Thr Thr Phe Phe Gln Phe Cys Asn Ala Asp Ser Gly Thr Leu Leu
 130 135 140
 Cys Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp Trp
 145 150 155 160
 Ile Val Gln Tyr Asp Pro Pro Asp Asp Pro Lys Glu Tyr Ile His Arg
 165 170 175
 Val Gly Arg Thr Ala Arg Gly Leu Asn Gly Arg Gly His Ala Leu Leu
 180 185 190
 Ile Leu Arg Pro Glu Glu Leu Gly Phe Leu Arg Tyr Leu Lys Gln Ser
 195 200 205
 Lys Val Pro Leu Ser Glu Phe Xaa Leu Phe Leu Val
 210 215 220

<210> 4516

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4516

Leu Glu Leu Phe Cys Asn Ile Thr Glu Phe Val Arg Ser Leu Ala Lys
 1 5 10 15
 Ile Phe Glu Gln Phe Ile Asn Val Glu Gln Met Phe Leu Phe Thr Ala
 20 25 30
 Leu Phe Val Thr Glu Gly Asp Lys Phe Ser Ser His Asp Tyr Trp Leu
 35 40 45
 Pro Cys Thr Ala Ile Phe Ile His Asn Ser Arg His Phe Pro Phe Leu
 50 55 60

4086

Trp Lys Ser Cys Cys Tyr Leu Asn Tyr Lys Cys Asn Cys Val Val Asn
 65 70 75 80

Glu Ser

<210> 4517

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4517

Lys Pro Gln Pro Leu Ala Tyr Ser Ser Phe Asn Thr Arg Asp Leu Trp
 1 5 10 15

Leu Ile Trp Gly Arg Lys Thr Leu Lys Val Ile Ser Leu Gly Gln Arg
 20 25 30

Pro Tyr Cys Thr Arg Gly Lys Lys Tyr Ile Leu His Leu Leu Leu Leu
 35 40 45

Gln Leu Cys Leu Lys Phe Ile Cys Leu Val Ile Leu Ser Thr Xaa Thr
 50 55 60

Asn Phe Leu Val Tyr Phe Lys His Leu Val Gly
 65 70 75

<210> 4518

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4518

Val Asp Pro Glu Met Lys Val Glu Arg Tyr Lys Arg Thr Phe Asp Gln
 1 5 10 15

Asn Glu Glu Leu Gly Leu Asn Asp Met Lys Thr Glu Gly Tyr Glu Ala
 20 25 30

Gly Leu Ala Pro Gln Arg
 35

4087

<210> 4519

<211> 143

<212> PRT

<213> Homo sapiens

<400> 4519

Ala Arg Ala Asn Pro Ala Met Ala Tyr Ala Asn Glu Val Lys Arg Val
 1 5 10 15

Val Ser Ser Ala Gln Glu Lys Gly Arg Lys Ile Ala Ala Phe Phe Ala
 20 25 30

Glu Ser Leu Pro Ser Val Gly Gly Gln Ile Ile Pro Pro Ala Gly Tyr
 35 40 45

Phe Ser Gln Val Ala Glu His Ile Arg Lys Ala Gly Gly Val Phe Val
 50 55 60

Ala Asp Glu Ile Gln Val Gly Phe Gly Arg Val Gly Lys His Phe Trp
 65 70 75 80

Ala Phe Gln Leu Gln Gly Lys Asp Phe Val Pro Asp Ile Val Thr Met
 85 90 95

Gly Lys Ser Ile Gly Asn Gly His Pro Val Ala Cys Val Ala Ala Thr
 100 105 110

Gln Pro Val Ala Arg Ala Phe Glu Ala Thr Gly Leu Ser Thr Ser Thr
 115 120 125

Arg Leu Gly Ala Ala Gln Cys Pro Ala Leu Trp Gly Trp Pro Ser
 130 135 140

<210> 4520

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

4088

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4520

Val Thr His Ser Val Met Leu Gly Arg Pro Gln Ala Glu Lys His Leu
 1 5 10 15

Leu Gln Leu Thr Leu Phe Leu Ala Ile His Ser Phe Gly Leu Lys Ile
 20 25 30

Leu Gln His Leu Gln Glu Ser Phe Thr Asn Xaa Ser Phe Gly Gly Val
 35 40 45

Val Leu Asn Tyr Gln Leu Thr Arg Met Arg Xaa Leu Ala Leu Gly Ser
 50 55 60

Gln Pro Ala Asn Met Asp Gly Leu Ser Gln Xaa Leu Lys
 65 70 75

<210> 4521

<211> 347

<212> PRT

<213> Homo sapiens

<400> 4521

Arg Gly Val Val Asp Ser Glu Asp Leu Pro Leu Asn Ile Ser Arg Glu
 1 5 10 15

Met Leu Gln Gln Ser Lys Ile Leu Lys Val Ile Arg Lys Asn Ile Val
 20 25 30

Lys Lys Cys Leu Glu Leu Phe Ser Glu Leu Ala Glu Asp Lys Glu Asn
 35 40 45

Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys Asn Leu Lys Leu Gly Ile
 50 55 60

His Glu Asp Ser Thr Asn Arg Arg Arg Leu Ser Glu Leu Leu Arg Tyr
 65 70 75 80

His Thr Ser Gln Ser Gly Asp Glu Met Thr Ser Leu Ser Glu Tyr Val
 85 90 95

Ser Arg Met Lys Glu Thr Gln Lys Ser Ile Tyr Tyr Ile Thr Gly Glu
 100 105 110